CONTENTS

PREFATORY CHAPTER: THE EDUCATION OF A MICROBIOLOGIST; SOME REFLECTIONS, *C. B. van Niel* 1

EUGLENIDA/EUGLENOPHYTA, *G. F. Leedale* 31

ENRICHMENT CULTURES, *H. G. Schlegel and H. W. Jannasch* . . . 49

BIOLOGY OF ACTINOMYCETES, *H. A. Lechevalier and M. P. Lechevalier* 71

TEMPERATURE EFFECTS ON MICROORGANISMS, *J. Farrell and A. Rose* 101

METHANE FERMENTATION, *T. C. Stadtman* 121

SURVIVAL OF BACTERIA, *A. P. Harrison, Jr.* 143

TOLERANCE, *S. Leskowitz* 157

CELLULAR COMMITMENTS TO IMMUNE RESPONSES, *S. H. Stone* . . 181

UNUSUAL VECTORS OF PLANT VIRUSES, *W. B. Hewitt and R. G. Grogan* 205

FATTY ACID SYNTHESIS AND METABOLISM IN MICROORGANISMS, *H. C. Reeves, R. Rabin, W. S. Wegener, and S. J. Ajl* 225

COLICINS AND RELATED BACTERIOCINS, *M. Nomura* 257

PHOTOSYNTHETIC BACTERIA, *N. Pfennig* 285

THE EFFECTS OF IONIZING RADIATION ON NUCLEIC ACIDS OF BACTERIOPHAGES AND BACTERIAL CELLS, *W. Ginoza* 325

MECHANISMS OF NUCLEIC ACID SYNTHESIS, *D. Hayes* 369

THE MECHANISM OF PROTEIN SYNTHESIS, *G. Attardi* 383

STRUCTURE AND FUNCTION OF BACTERIAL CELL MEMBRANES, *M. R. J. Salton* 417

SALMONELLA O ANTIGENS AND VIRULENCE, *R. J. Roantree* 443

THE POSSIBLE ROLE OF MICROORGANISMS AND VIRUSES IN THE ETIOLOGY OF CHRONIC DEGENERATIVE DISEASES OF MAN, *F. R. Abinanti* 467

FOOD-BORNE SALMONELLOSIS, *E. Prost and H. Riemann* 495

VIRUS LEUKEMIA IN THE MOUSE, *M. A. Rich and R. Siegler* . . . 529

THE MAMMALIAN CELL AS DIFFERENTIATED MICROORGANISM, *H. Green and G. J. Todaro* 573

EPISOMES, *J. Scaife* 601

DEFENCES AGAINST BIOLOGICAL WARFARE, *C.-G. Hedén* 639

OTHER REVIEWS OF MICROBIOLOGICAL INTEREST 677

AUTHOR INDEX 679

SUBJECT INDEX 712

CUMULATIVE INDEX OF CONTRIBUTING AUTHORS, VOLUMES 17 TO 21 . 725

CUMULATIVE INDEX OF CHAPTER TITLES, VOLUMES 17 TO 21 . . . 726

AUTHOR INDEX

A

Aaronson, S., 37, 42, 43
Aasen, A. I., 307
Aasmundrud, O., 294, 304, 305
Abbot, M. T., 373
Abbot, V., 259
Abbott, J., 577, 581
Abd-el-Malek, Y., 109
Abercrombie, M., 592
Abinanti, F. F., 467-94
Abo-Elnaga, I. G., 425, 426
Abraham, S., 242
Abram, D., 105, 434, 436
Abrams, A., 54, 56, 274, 432, 433, 436
Abrams, R., 369
Abson, I. W., 64
Achey, P. M., 356
Acs, G., 384
Ada, G. L., 171, 177, 184
Adamcove, B., 545, 550
Adamik, E. R., 166
Adams, A., 402
Adams, E., 250
Adams, J. M., 399, 400, 402
Adams, J. N., 625
Adelberg, E. A., 56, 61, 62, 264, 604, 609, 612, 614, 619, 620, 621, 623, 632
Adinolfi, A., 250
Adler, F., 510, 511
Adler, F. C., 175
Adler, F. L., 185, 200, 454
Adler, H. E., 481, 484, 485, 512
Adler, H. I., 354, 355, 358
Adler, J., 250, 317, 370, 372, 376, 622, 626
Afston, J. M., 506
Agre, N. S., 75, 79, 87, 88, 94
Ahrens, G., 509
Ailhaud, G. P., 233, 234
Ajl, S. J., 225-56; 244, 245, 247, 248, 249, 250
Akagi, J. M., 105
Akiyaama, Y., 509, 511
Akiyama, T., 459
Akkermans, J., 509
Al-Askari, S., 191
Albers, M., 369, 370, 385
Albert, O., 513
Alberts, A. W., 227, 228, 229, 230, 231, 233, 234, 235, 236, 242
Alberts, B., 386
Albrink, W. S., 651
Aleksandrov, N. I., 649
Aleshina, R. M., 649
Alexander, M., 53, 650, 652
Alexander, P., 331, 332, 337, 338, 339, 342, 355, 359
Alexopoulos, C. J., 82
Alföldi, L., 261, 277
Alikhanian, S. I., 55
Allam, A. M., 127, 128, 129, 131, 136
Allen, B. V., 533, 552
Allen, D. R., 512
Allen, D. W., 394
Allen, E. H., 383, 384
Allen, M. B., 104
Allen, M. W., 208, 213, 215
Allen, S. H. G., 241, 246
Allen, T. C., Jr., 208
Allende, J. E., 395
Allfrey, V. G., 383, 403, 406, 577, 578, 581
Allison, A. C., 343
Almeida, J. D., 552
Alpen, E. L., 188
Alper, T., 354
Alpers, A., 388, 398, 401, 405
Alpers, M., 469, 489, 491
Amako, K., 260
Amano, T., 261, 265, 277
Amati, P., 267, 268
Ambrose, C. J., 189
Ambrose, E. J., 592
Amelunxen, F., 391
Amerine, M. A., 249
Ames, B. N., 62, 385, 388, 389, 398, 401, 405
Amiel, J. L., 181
Amos, D. B., 591
Amoz, S., 385
An, T., 261, 277
Anagnostidis, K., 288, 290, 299
Anders, M., 369, 370, 372, 373
Anderson, A. W., 355, 359
Anderson, B., 437
Anderson, D. R., 419
Anderson, E. S., 497, 507, 510
Anderson, G. W., 501
Anderson, J. D., 312, 313
Anderson, J. S., 433
Anderson, K., 512
Anderson, R. C., 239
Anderson, T. F., 151, 422
Andresen, W. F., 575
Andrews, H. I., 341
Andrey, J., 109
Anfinsen, C. B., 162, 384, 385, 394, 404, 406
Angeletti, P. V., 592
Angelotti, A., 153
Angelotti, R., 501, 511, 512
Anker, H. S., 651
Anraku, N., 613
Anthony, A., 593
Anton, D. N., 261, 263, 266, 279
Anton, G. T., 653
Antonova, A. A., 649
Antony, D. D., 371
Aoki, M., 67
Aoki, R., 67
Aoki, S., 358
Aoki, T., 547, 548, 549
Apelgot, S., 336
Apelt, E., 508
Apgar, J., 353, 388, 389
Aposhian, H. V., 375, 376, 377
Arai, M., 484
Arai, T., 78, 92
Arber, W., 603, 620
Arce, A., 41
Archer, G. T. L., 455
Ard, W. B., 331
Arda, M., 507
Arena, J., 333, 334, 337
Argaman, M., 423, 432, 433
Argoudelis, A. D., 90
Argyris, B. F., 159, 169, 172
Arima, K., 431, 432, 433
Arkwright, J. A., 445, 453, 455
Arlinghaus, R., 392, 393, 394, 395, 396, 397, 398, 403
Armstrong, J. M., 507
Arnesen, K., 539
Arnold, A., 457
Arnold, B., 539, 540
Arnon, D. I., 311, 312, 313, 315
Aronson, A. I., 386
Arth, G. E., 239
Ascione, L., 509

Ash, I., 510, 512
Asherson, G. L., 161, 162, 163, 191, 193
Ashford, W. A., 507
Ashwood-Smith, M. J., 102
Ashworth, J. M., 57, 247
Askonas, B. A., 176, 184, 185, 189
Asselineau, J., 79
Astrachan, L., 384, 387, 388
Atchison, M. M., 652, 656
Athow, K. L., 207, 208, 209, 211, 212
Attardi, D. G., 592
Attardi, G., 383-416; 386, 387, 388, 396, 405, 407
Attia, M. A., 550
Atwood, K. C., 387
Auerbach, R., 583, 584
August, J. J., 370
August, J. T., 369
Aurisicchio, A., 374, 388
Aurisicchio, S., 343, 347
Austin, C. M., 171, 175, 177, 184
Austwick, P. K. C., 79
Auzins, I., 455, 458, 460, 461
Averbeck, W., 507, 513
Averbuck, V. L., 658
Avery, R. J., 74
Avigan, J., 423, 432, 433
Axelrad, A. A., 549, 550, 559, 561, 562, 575, 585
Axelrod, E. E., 333
Ayabe, K., 260
Ayala, A., 208, 211, 212, 213
Ayres, J., 501, 502, 503, 504
Ayres, J. C., 500, 503
Azuma, I., 226
Azyma, Y., 115

B

Baas Becking, L. G. M., 13
Babel, F. J., 109
Babinet, C., 370, 372
Babos, P., 217
Bachmann, E., 96
Bachofen, R., 311, 312
Bacon, F. A., 453
Bacon, G. A., 506
Bader, J. P., 555
Baer, H., 193
Bagelos, P. R., 230
Baglioni, C., 407, 409
Bahr, H., 514
Baich, A., 63
Bailey, G. C., 511, 512
Bakay, B., 431, 432
Baker, C. G., 189
Baker, P. J., 186, 187, 200
Baker, R. D., 72, 88
Baker, R. F., 552
Baker, R. S., 145
Bakerman, H. A., 228, 236
Balamuth, W., 31
Balbinder, E., 620
Balchum, O. J., 483, 491
Bald, J. G., 217
Baldacci, E., 83, 85, 91
Baldwin, R. L., 372, 377, 602, 608
Balfour, B. M., 188
Balitskaya, R. M., 292, 312, 314
Ballard, P. L., 369
Baltimore, D., 369, 370, 555
Baluda, M. A., 584
Bamji, M. S., 39
Bancroft, J. B., 207, 209
Banerjee, A. K., 53
Banfield, W. G., 437, 438
Bang, P., 508
Bang, Y. N., 74
Banwart, G. J., 500
Banwart, S. J., 503
Baram, P., 195
Baratov, G. F., 655
Barber, C. W., 506
Bardsley, A. J., 502
Baricelli, N. A., 347
Barile, M. F., 419, 482, 483, 491
Barker, B. E., 188
Barker, H. A., 24, 123, 124, 125, 126, 127, 128, 131, 132, 133, 138
Barkulis, S. S., 250, 430
Barlow, J. L., 278
Barnabeli, O., 555
Barner, R. D., 507
Barnes, B. A., 166
Barnes, E. M., 518
Barnes, I. J., 54
Barnes, M. G., 484
Barnes, R., 446
Barnes, W. A., 531
Barnes, W. H., 574
Barnett, L., 388
Barnetzki, C., 509
Baron, L. S., 266, 444, 453, 455, 602, 621
Barondes, S. H., 389
Barone, T. F., 352
Baroni, C., 539, 540
Baronowsky, P., 232
Barra, R. V., 399
Barrand, P., 602, 608
Barras, D. R., 37
Barret, J., 508
Barrett, B. D., 499
Barrnett, R. J., 419
Barry, G. T., 259
Barski, G., 543, 557, 558, 574, 575, 590, 591, 592, 594
Bartani, L. E., 276
Bartel, H., 514
Barth, R., 186
Bartholomew, L., 484
Bartlema, H. C., 649
Barzoi, D., 507, 510
Basilico, C., 343, 361, 388, 408
Bass, I. A., 373
Bass, K., 642
Batchelor, H. W., 650
Bate, W., 512
Bathke, W., 509
Batra, P. P., 37
Battisto, J. R., 160, 162, 163, 173
Battley, E. H., 103
Bauchop, T., 139
Bauer, J. A., Jr., 194, 195
Bauman, N., 55
Baumbach, L., 557, 558
Bauminger, S., 173, 174
Bausum, H. T., 103
Bautz, E. K. F., 374, 388
Bavendamm, W., 9, 288
Bawden, F. C., 217, 658
Baxter, R. M., 112, 113
Bayer, M. E., 422
Bayre, H. G., 499
Bayreuther, K., 599, 560
Beacham, L. M., Jr., 651, 659
Beard, C. W., 647
Beard, J. W., 554
Bearn, A. G., 581, 589, 590
Beaudreau, C. A., 446, 448
Bechade, A., 510, 512
Becker, B., 76, 77, 80, 86, 87
Becker, C., 554
Becker, Y., 386, 388, 396, 398, 405, 581, 594
Beckman, H., 433
Beckmann, I., 450
Beckwith, J. R., 388, 398, 399, 401, 405, 604, 612, 614, 615, 618, 619, 620, 621, 623, 624
Behrend, L., 510, 512
Beijerinck, M. W., 18, 49, 50, 291
Belehradek, J., Jr., 592
Bell, P. R., 42
Bellanti, J. A., 647
Bellin, J. S., 154
Bello, J., 406
Belozersky, A. N., 355, 359
Belton, F. C., 648, 657
Benacerraf, B., 163, 175, 193, 460, 461, 551
Benedict, R. G., 84
Ben-Efraim, S., 192
Benenson, A. S., 642, 647, 648, 651, 656, 657

Ben-Gurion, R., 266
Benjamin, T. L., 361
Bennet, M. V., 507
Bennett, B., 191
Bennett, J. T., 512
Bennett, T. P., 388, 399
Bennetts, M. J., 212
Bennöhr, J., 512
Ben Porat, T., 377
Ben-Shaul, Y., 42
Bensky, B., 42, 43
Benzer, S., 345, 348, 350, 388, 389
Beradi, P., 512
Berberich, M. A., 388, 398, 399, 401, 405
Bercks, R., 208
Berends, W., 145, 357
Berendt, R. F., 647
Berenson, G. S., 577, 578
Berg, C., 612, 621, 623
Berg, P., 369, 370, 372, 373, 384, 388, 399
Berge, T. O., 656
Bergendahl, J. C., 319
Bergeson, G. B., 208, 209, 210, 211, 212
Bergmann, F. H., 384, 388, 399
Bergstrom, L., 431, 432, 433
Bergy, M. E., 90
Berken, A., 193
Berlin, C. M., 585
Berlin, I. Z., 658
Bernard, C., 552, 553
Bernard, J., 536, 538, 552, 558
Bernfield, M., 388, 401, 405
Bernhard, W., 552
Bernhauer, K., 132, 247
Bernheim, B. C., 578
Bernstein, E., 42
Bernstein, M., 186, 187
Bertani, G., 603, 605, 624
Bertani, L. E., 619, 628
Bertin, B. A., 543, 558
Bertolino, J., 483, 491
Bertsch, L. R., 372, 376
Besredka, A., 197
Bessis, M. C., 183
Betcke, H. J., 509
Betto, E., 213
Betz-Bareau, M., 261, 266
Beukers, R., 357
Beutelspacher, H., 84
Bhargava, P. S., 241
Bhatnager, S. S., 111
Bhattaacharjee, L. M., 511
Bianco, A. R., 549
Bianco, R., 145
Bichel, J., 556
Bickel, W. D., 424
Biederbick, K., 241
Bielka, H., 552, 554
Bielschowsky, M., 487, 489, 491
Bierer, B. W., 499
Bierwolf, D., 557, 558
Biesold, L., 510, 512
Bigland, C. H., 509
Billen, D., 147, 354, 355, 376, 377
Billote, J. B., 160, 161, 162, 163, 170, 191
Binkley, F., 446
Biozzi, G., 445, 453, 455
Birch, S. M., 544
Birdsell, D. C., 424, 437
Birnboim, H. C., 388
Birnstiel, M. L., 387
Bischoff, J., 512
Bishop, D. G., 112
Bishop, D. H. L., 433
Bishop, J., 385, 394, 395, 405
Bisset, K. A., 79, 88
Bister, F., 448, 450
Bitensky, L., 198
Bitkina, L. N., 511, 512
Björnerstedt, R., 667
Black, L., 613, 622
Black, P. H., 339
Black, S., 647
Blackburn, G. M., 394
Bladen, H. A., 374, 422, 428, 437
Blagoveshchenskaya, E. V., 369
Blanche Koelensmid, L. W. A. A., 502, 503
Blanden, R. V., 196, 455, 456, 457, 458, 461
Blank, F., 74
Blank, H., 72
Blaylock, B. A., 126, 127, 130, 131, 132, 134, 135, 136, 137, 138
Blazkovec, A. A., 195
Bleiweis, A., 248, 249
Blinks, L. R., 28
Blinov, N. O., 95
Bloch, K., 43, 112, 226, 227, 228, 232, 238, 403
Block, M. H., 539, 540
Bloom, B. R., 162, 181, 191
Blount, R. E., 656
Blum, H. F., 143
Blum, J. J., 35, 37, 39, 40, 41
Boatman, E. S., 301
Bobkova, E. A., 95
Boch, R. M., 236, 237, 251
Böck, A., 116
Bode, V. C., 608
Bodman, H., 436
Bodmer, W. F., 336
Boev, B., 508, 511, 512
Boezi, J., 374, 388
Bogdanova, N. P., 93
Böhme, H., 146
Boice, L. B., 269
Boiron, M., 536, 538, 552, 553, 557, 558
Boivin, A., 445, 455
Bojarski, J., 512
Bold, H. C., 31
Bollum, F. J., 350, 357, 375, 377
Bolt, K. F., 53
Bolton, E. T., 374, 383, 388, 444
Boltralik, J. J., 430
Boltz, J. K., 107
Bond, R. M., 24
Bonhoeffer, F., 55, 116, 377, 633
Bonillat, M., 652
Bonner, J., 369, 374, 385
Boon, M. C., 531, 532
Boon, M. D., 538
Boone, C. W., 581, 594
Borek, C., 577, 593
Borek, F., 192, 193
Borel, Y., 162, 164
Borges, W. H., 559
Borgstrom, G., 504
Borgstrom, G. A., 102, 107
Bories, S., 510
Borjeson, J., 188, 189
Borkenhagen, M., 509
Borodiyuk, N. A., 649
Borsook, H., 383, 404
Borstein, A., 512
Bortz, W. M., 241, 242
Bos, L., 209
Bosch, L., 388, 390, 398, 405
Bose, S. K., 311
Bouck, N., 632
Bourgeois, S., 371, 375
Bouthillier, Y., 445, 455
Bouton, P., 508
Bovard, F. C., 384
Bovee, E. C., 31, 36
Boveri, T. H., 559
Bovre, K., 507, 508
Bowen, C. C., 302
Bower, R. R., 93
Bowmer, E. J., 509, 510, 515
Boxer, G. E., 370
Boyarskaya, R. V., 84
Boyce, R. P., 326, 357, 358, 359
Boyd, J. W., 108
Boyd, M. F., 642, 647
Boyd, W. L., 108
Boy de la Tour, E., 42
Boyden, S. V., 193
Boyse, E. A., 189, 542, 543, 546, 547, 548, 549, 550,

560, 562, 577, 579
Bozhilov, B., 512
Braams, R., 332
Brachet, J., 383
Brachman, P. S., 651, 652, 656
Brackett, F. S., 148
Bradley, D. E., 260
Bradley, R. M., 229, 230
Bradley, S. G., 74, 80, 86
Bradley, T. R., 584
Bradshaw, J. L., 651
Brady, R. O., 229, 230, 238, 239, 242
Brand, K. G., 575
Brandly, P. J., 508, 512
Brandriss, M. W., 191
Brandt, B. L., 543
Brandts, J. F., 113
Branellec, A., 159
Braude, A. I., 477
Braun, H., 111, 445
Braun, O. H., 448
Braun, W., 51
Brawerman, G., 43, 403
Brazhnikova, M. G., 93
Brdaric, V., 507, 508
Brecher, G., 188
Breece, J. R., 208
Breed, R. S., 86
Breedis, C., 556
Bremer, H., 370, 371, 374, 375
Brennan, P., 239
Brenner, S., 116, 265, 267, 274, 279, 375, 378, 384, 387, 388, 398, 399, 401, 405, 406, 603, 621, 629, 630, 632
Brent, L., 195
Bressler, R., 230, 236
Breton, J. P., 512, 513
Bretscher, M. S., 401, 402, 406, 407
Breuker, E., 317
Breuniger-Peck, E., 186
Brglez, I., 507, 512
Bricas, E., 430
Bridges, B. A., 102, 357
Brieger, E. M., 73
Briggs Phillips, G., 641, 651, 655
Brill, W. J., 127, 128, 129, 131
Brimacombe, J. S., 417
Brimacombe, R., 388, 401, 405
Brinster, R. L., 583
Brinton, C. C., 263, 396, 418, 603, 604, 630
Brintzinger, H., 128
Britten, R. J., 383, 385, 386, 404
Brock, D. J., 232
Broda, P. M. A., 604, 612, 614, 621, 623
Brodiyuk, Na. A., 649
Brodsky, B. C., 81, 91
Brodsky, I., 536, 555
Brody, M., 43
Brody, S. S., 43
Brooke, J. H., 556
Brooke, M. S., 159, 167, 169, 170, 173
Brooke, M. W., 160, 170
Broomhead, C., 510, 512
Brot, N., 134
Browder, H. P., 430
Brown, A. D., 109, 422, 423, 436
Brown, B. J., 377, 385
Brown, D., 583, 588
Brown, E. R., 543, 546
Brown, H. P., 35, 36
Brown, J. C., 400, 401, 402
Brown, J. S., 39, 42, 647
Brown, J. W., 431, 432, 435
Brown, M. B., 540
Brown, M. H., 640, 655, 665
Brown, S. W., 578
Brownell, G. L., 166
Bru, C., 510, 512
Bruce, A. K., 147, 355
Bruce, V. G., 37
Bruce, W. R., 550
Brückbauer, H., 207, 209
Brümmer, W., 241
Bruner, A., 508
Bruner, R., 336, 339, 371
Brustad, T., 332, 342
Bryan, W. G., 343
Bryans, J. T., 486, 487
Bryant, M. P., 121, 122
Bubenik, J., 545, 550
Bublitz, C., 581
Bucciarelli, G., 145
Buchanan, B. B., 125, 311, 312, 313
Buchanan, L. M., 650, 653
Buchanan, R. E., 72
Bucher, N. L. R., 594
Buchert, A. R., 154
Buckland, F. E., 654
Buckley, R., 483, 491
Buder, J., 9, 288, 298, 316
Budillon, G., 555
Budreau, A., 56
Buescher, E. L., 647
Buetow, D., 31
Buffett, R. F., 533, 534, 536
Buinauskas, P., 546
Bukatsch, F., 147
Bulen, W. A., 311
Bulfone, L. M., 543
Bull, M. J., 303
Bulling, E., 506, 508, 509, 510
Bulmer, G. S., 424
Bu'Lock, J. D., 89
Bulten, E. J., 604
Bumford, F. H., 652, 656
Bungay, H. R., 66
Bunous, J., 625
Bunt, J. S., 107, 108, 109
Buonassisi, V., 574, 577, 579
Burchard, R. P., 153
Burde, R. M., 438
Burford, B. D., 575
Burger, D., 470, 477, 478, 479, 489, 490
Burger, R. M., 42, 43
Burgi, E., 343, 607, 608
Burka, E. R., 385, 388, 396
Burke, D. C., 343
Burkholder, P. R., 104
Burma, D. P., 369, 370
Burmeister, R. W., 656
Burnet, F. M., 468, 469, 481, 488
Burns, R. O., 62, 250
Burns, S. N., 604, 610, 620, 621, 623
Burokas, S., 93
Burr, W. E., 509
Burris, R. C., 311
Burris, R. H., 239
Burrows, T. W., 453, 506
Burrows, W., 106
Bursztyn, H., 400, 402
Burtikashvili, P. S., 508, 510
Burton, A., 339
Burton, A. J., 446
Burton, K., 139
Buss, W., 512
Bussard, A. E., 186, 187
Busta, F. F., 104
Butler, J. A. V., 338, 351
Butlin, K., 666
Buttin, G., 58, 59
Buxton, A., 498, 505, 506, 509
Bynoe, M. E., 654
Byrd, C., 370, 372, 376
Byrne, J. L., 516, 518
Byrne, P., 113
Byrne, R., 374

C

Cabelli, V. J., 667
Cadman, C. H., 206, 207, 208, 209, 210, 212
Caffrey, R. W., 182, 183
Cahn, M. B., 578, 580, 584

Cahn, R. D., 578, 580, 584
Cailleau, R., 559
Cain, R. F., 355, 359
Cairns, J., 360, 376, 377, 602, 632
Caldecott, R. S., 342
Caldwell, M. E., 111
Caldwell, W. J., 498
Calef, E., 609
Calne, R. Y., 198
Calvert, E. L., 210
Calvin, M., 311
Calvo, J., 62
Calvo, J. M., 250
Cameron, C. M., 509
Campbell, A., 348, 603, 609, 615, 616, 618, 620, 622, 625, 627
Campbell, A. M., 605, 607, 621
Campbell, B. K., 574
Campbell, D. H., 172, 176
Campbell, G. LeM., 592
Campbell, J. J. R., 109
Campbell, L. L., 105
Campbell, R. N., 206, 214, 215, 216, 218, 219, 220
Canale-Parola, E., 111
Canfield, J. H., 315
Canfield, R. E., 385, 394, 404
Canivet, M., 557, 558
Cann, D. C., 107
Cannefax, G. R., 103
Cannon, M., 390, 391, 393, 394
Capecchi, M., 385
Capecchi, M. R., 388, 399, 400, 401, 402, 405, 406
Capps, W. I., 543, 544, 557, 563, 564, 565
Capstick, P. B., 575
Cardinal, E. V., 93
Carey, W. F., 444, 621
Carhart, S., 642, 648, 651
Carlin, J., 248
Carlisle, H. N., 651
Carmack, C., 338
Carnahan, J., 263, 603, 604, 630
Caro, L. G., 263, 603, 630, 632, 633
Carpenter, R. R., 191, 486, 490, 491
Carrese, L. M., 189
Carrier, W. L., 326, 357, 358, 359
Carrinolo, J., 395
Carski, T. R., 653
Carson, K. J., 423
Carson, S. F., 24
Carswell, E. A., 549
Carter, H. E., 446
Carter, J. R., 434, 437, 438
Carter, R. A., 656
Carter, S. B., 593
Carteri, L., 507, 508
Cashel, M., 375
Caspersson, T., 383
Cassingena, R., 574, 575, 591, 594
Castagnoli, C., 343
Castellani, A., 88
Castellani, A. G., 503
Castelnuovo, G., 79
Castor, C. W., 576, 577, 578, 579, 581
Castrova, A., 196
Cate, T. R., 647
Cavalieri, L. F., 376, 377
Cavalli, J., 603, 604
Cavalli, L. L., 604
Cavrini, C., 508, 512
Cayeux, P., 484, 486
Cecere, M. A., 398, 399
Ceci, L. N., 250
Ceicura, S. J., 574
Celada, F., 183, 194
Celano, A., 347
Chadefaud, M., 37
Chaikoff, I. L., 242
Chaix, P., 428, 430, 433, 438
Chalmers, D. G., 182
Chamaillard, L., 343
Chamberlin, M., 369, 370, 372, 373
Chambon, P., 369
Chamorro, A., 534, 557
Champe, S. P., 388
Chance, B., 418
Chancellor-Maddison, J., 43
Chandler, B. L., 608
Chandler, N., 215
Chandler, R. L., 471, 473
Changeux, J. P., 62, 63
Chanmougan, D., 199
Chanock, R. M., 482, 491
Chao, F.-C., 385
Chaparas, S. D., 193
Chapeville, F., 389, 403
Chapman, D., 113
Chapman, D. N., 650
Chapman, G. B., 73, 84, 425, 429
Chapman, J. A., 430
Chapman, J. D., 359
Chapman, W. G., 575
Chargaff, E., 43, 372
Charlesby, A., 329, 332
Charney, W., 91
Chase, M., 278
Chase, M. W., 158, 159, 160, 162, 163, 173, 181, 191
Chatterjee, A. N., 433, 509
Chayen, J., 198
Cheaves Batista, A., 82
Cheldelin, V. H., 62
Chen, P. L., 73
Chen, Y. T., 38
Chenaille, P., 552, 553
Cheniae, G. M., 43
Cheronis, N. D., 650
Cherry, G. B., 653
Cherry, W. B., 653
Chessin, L. N., 188, 189
Chessin, M., 154
Chesterman, F. C., 552, 562, 563
Chevallier, M. R., 267
Chevrier, L., 509
Chian, S. K., 64
Chiasson, L. P., 102
Chichester, C. O., 146
Chieco-Bianchi, L., 538, 552
Child, F. M., 36
Chipchase, M. I. H., 387
Chirigos, M., 542, 543, 546
Chiu, J. Y., 498
Chládek, V., 642, 643, 644, 645, 646, 649, 651, 657
Cho, K. Y., 432
Chou, S.-M., 468
Chrambach, A., 387
Christen, H. R., 33, 34, 35
Christensen, T., 31, 40
Christian, C. L., 484, 491
Christian, J. H. B., 502
Christiansen, E., 555
Christopher, J. A., 195
Chrustalewa, L. A., 508
Chudina, V. I., 313
Chung, K. L., 299
Chvapil, M., 590
Ciccarelli, A. S., 648
Cifferi, R., 72
Cinader, B., 175, 487, 489
Citarella, R. V., 266, 602
Claman, H. N., 160, 169, 172
Clarenburg, A., 509, 510, 512, 513
Clark, A. J., 265, 616, 617
Clark, B., 388
Clark, B. F. C., 370, 372, 399, 400, 401, 402, 403
Clark, M. F., 396
Clarke, A. E., 43
Clarke, D. A., 551
Claunch, C., 577, 579
Clayton, R. K., 289, 315, 316, 317
Clifford, N. L., 543
Cline, M. J., 555
Clowes, R. C., 258, 261, 262, 263, 265, 266, 268, 269, 274, 275, 279, 605, 617
Cluzan, R., 484, 486

Clymer, R., 541
Cobb, H. D., 37
Cockburn, W., 512, 513
Coggins, C. H., 641
Cohen, A. L., 579
Cohen, G. N., 51, 61, 62, 63, 113, 384
Cohen, L., 574, 580
Cohen, M., 431, 432
Cohen, M. W., 159
Cohen, S., 373, 374
Cohen, S. N., 627
Cohen, S. S., 348, 349, 385
Cohen-Bazire, G., 57, 288, 298, 300, 301, 302, 303, 304, 305, 306, 307, 317, 419, 426, 427, 428
Cohn, F., 295, 302
Cole, J. A., 313
Cole, P. A., 148
Cole, R. J., 583
Cole, R. K., 531, 532, 560
Collins, F. M., 196, 455, 456, 457, 458, 459, 461
Collins, V., 290
Collis, L. R., 454
Collis, R. T. H., 650
Collyns, B., 336, 337
Colombo, B., 407, 409
Coltorti, M., 555
Colvill, A. J. E., 369, 370, 373
Colwell, R. R., 109
Comer, A. G., 501
Comolli, R., 603
Conant, N. F., 72, 88
Conev, C., 508
Connole, M. D., 509
Conrad, M. W., 370, 371, 374, 375
Conti, S. F., 295, 299, 300, 301, 302, 303, 313, 419, 427
Contois, D. E., 65, 66
Contopoulou, R., 312, 313
Converse, J. L., 651
Converse, R., 197
Conway, T. W., 395, 396
Cooch, J. W., 652, 657
Cook, E. S., 550
Cook, J. B., 328, 331
Cook, J. R., 41
Cook, K. M., 647
Coon, H. G., 577, 580, 584
Cooney, D. G., 104
Coons, A. H., 159, 171, 172
Coons, H. H., 184
Cooper, E. H., 181, 182, 188
Cooper, G. W., 580
Cooper, H. L., 188, 504
Cooper, M. D., 199
Cooper, R. A., 250
Coppo, A., 347
Corbaz, R., 86
Cordes, S., 395
Corke, C. T., 104
Corpe, W. A., 437
Corliss, J. O., 31
Cornefert, F., 590
Cornelius, A., 550
Coronelli, C., 94, 95
Corsico, G., 512
Corstvet, R. E., 508, 512
Cortini, G., 343
Cosby, M. J., 550
Cota-Robles, E. H., 424, 437
Cotton, J. M., 342
Couch, J. N., 73, 80, 81
Couch, R. B., 647, 650
Coughlin, J. J., 574
Coulson, A. S., 182
Coulson, C. A., 326
Cousin, D., 116
Cowan, C. A., 42, 43
Cowdry, E. V., 537
Cowen, D. M., 159
Cowie, D. B., 407
Cowles, C. A., 543
Cox, A., 35, 36
Cox, C. S., 653
Cox, D. J., 237
Cox, E. C., 387
Cox, R. A., 337
Cox, R. P., 574, 585, 586, 587, 588, 594
Craddock, J. G., 486
Craig, L. C., 388, 399
Craighead, J. E., 488
Cramer, R., 361
Craseman, J. M., 355, 358
Craveri, R., 81, 83, 87, 94, 95
Crawford, E. M., 343, 371, 603, 630
Crawford, I. P., 444
Crawford, L. V., 339, 343, 371
Creighton, T. E., 444
Cremer, M. C., 208
Cremer, N. E., 551
Crespi, A., 502
Crick, F. H. C., 384, 388, 391
Criddle, R. S., 437
Cromartie, W. J., 486
Cronkite, E. P., 166
Cross, T., 81, 82, 84
Crowder, E. F., 512
Crowe, E. W., 486
Crowell, E. A., 249
Crowle, A. J., 191, 193
Crozier, D., 642, 649, 652, 655, 657
Csiszar, V., 509
Cukier, R., 369, 370, 372, 373
Cummins, C. S., 74, 75, 76, 77
Cundiff, R. J., 454
Cunningham, F. E., 499
Cunningham, G. J., 198
Curran, H. R., 102
Curran, J. F., 577, 579, 585, 586, 587
Curry, J. B., 387
Curtis, A. S. G., 592
Curtiss, R., III, 612, 613, 615, 621, 623
Cuzin, F., 116, 265, 267, 274, 279, 378, 438, 603, 604, 614, 630, 632
Cvilic, V., 288
Czarnowski, A., 513
Czurda, V., 297

D

Daal-Berg, I. I., 649
Dack, G. M., 502, 504, 516
Dahlgren, C. M., 650
Daigeler, A., 508
Dais, D., 388
Dalgarno, L., 374
Dalldorf, F., 651
Dalton, A. J., 552, 563
Daly, M. M., 383
Dameshek, W., 164
Danes, B. S., 581, 589, 590
Danforth, W. F., 113
Dangerfield, H. G., 657
Daniels, M., 336
Danielsohn, P., 144
Dankert, M., 446, 449
Darling, C. A., 107
Darnell, J. E., 386, 388, 396, 398, 405
Das, C. R., 206
Das, J., 508
Das, S., 211
Das, V. S. R., 312, 313
Datta, N., 263, 265, 266, 605, 630, 631
Datta, S. K., 510
Davenport, F. M., 651
Davern, C. I., 387
David, J. R., 191
Davidson, D., 419
Davidson, E. H., 573, 577, 578, 581, 582
Davidson, J. A., 499
Davidson, R. L., 579, 590, 591
Davidson, T. R., 206
Davie, E. W., 384, 407
Davies, D. A. L., 451, 452
Davies, E. T., 513
Davies, J., 407, 408
Davies, J. E., 408
Davies, M. C., 84, 133
Davies, W. H., 43

Davis, B. D., 52, 55, 57, 115, 433, 438, 603
Davis, C. N., 646
Davis, P. A., 109
Davison, P. F., 147
Davydova, I. M., 75
Dawson, D. A., 102
Dawson, L. E., 499
Day, M., 577, 579
Day, M. F., 212
Day, W. H., 508
Dean, C. J., 342, 355, 359
Dean, D. J., 79
Deasy, C. L., 383
Debov, S. S., 369
de Brito, M. M. X., 88
Debrot, E. A., 208
De Bruyn, W. M., 556
DeCicco, B. T., 53
Decker, H. M., 650, 653
de Deken-Grenson, M., 43
Deering, R. A., 358
Defendi, V., 591, 594
DeFillipes, F. M., 334, 337
de Haller, G., 35, 36, 37, 38, 39
deHann, P. G., 263, 604, 629, 633
de Harven, E., 552
Deig, E. F., 654
De Jarnette, E., 406
DeJong, P. J., 83
Dekker, E. E., 250
de la Cruz, E., 508, 512
Delage, B., 509
De la Haba, G., 580
De la Haba, G. L., 392, 394
Del Campillo-Campbell, A., 627
Delcour, G., 270
Delinger, R. B., 656
DeLorenzo, S., 91
Deltchev, Ch., 511
DeMars, R., 586, 587, 588
Demchak, P., 651
Demerec, M., 444
Demersemen, P., 335
DeMoss, J. A., 384
Dempsey, W. B., 53
Den, H., 239
Denhardt, D. T., 172, 345
Dennert, G., 620
Dennis, S. M., 507
Dent, P. B., 551
DeOme, K. B., 550
de Petris, S., 182, 188, 421, 422
Deppe, A., 620
Deroy, R., 508
Derr, J. S., Jr., 653
Derrenbacher, E. B., 650
Derx, H. G., 13
Deshmukh, P. V., 90
de Sousa, M. A., 185, 486
De Souza, B. C., 44
Destombes, P., 86
de-Thé, G., 552, 554
Devoret, R., 267
Devos, A., 508
DeWaard, A., 239
Dewberry, E. B., 512, 515
Dewey, K. F., 400, 401, 402
DeWitt, W., 266, 267, 268
De Zeeuw, J. R., 52
Dhéré, C., 151, 152
Dias, H. F., 208, 209, 210, 212
Dickinson, A. G., 473, 487, 489
Dieckmann, M., 370, 371, 384, 388, 399
Diercks, F. H., 642, 659
Dierickx, L., 430
Dietrich, C. P., 433
Dietrich, F. M., 159, 160, 161, 169, 173
Dietz, A., 90
Dijkstra, R. G., 507
Dilworth, M. J., 138
Di Mayorca, G., 343, 361
Di Menna, M. E., 108, 109
Dimmick, R. L., 102, 103, 105, 653
Dimov, I., 509
Dintzis, H. M., 385, 394, 405
Ditmars, W. E., 147
Dituri, F., 242
Dixon, B., 641, 648
Dixon, F. J., 158, 160, 173, 477, 478, 479, 481
Dixon, J. M., 512
Djourov, G., 511
Dmochowski, L., 530, 532, 552
Dobberkau, H. J., 510, 512
Dobrov, E. N., 371
Doctor, B. P., 388
Dodyk, F., 437

E

Eagle, H., 573, 574, 575, 580, 581, 593, 594
Eagon, R. G., 423
Earle, W. R., 575, 591
Eason, R., 555
East, J., 185, 488
Easton, N. R., 239
Ebenick, W. H., 512
Eberly, V. E., 481
Ebert, B., 335
Ebisuzaki, K., 350
Ebringer, L., 42
Echols, H., 263, 268, 278, 604, 626, 627, 628, 630
Eckert, K., 391
Eddy, B. P., 106
Edelman, M., 42, 43
Edlin, G., 375
Edmonds, M., 369
Edmunds, L. N., 41
Edstrom, R. D., 446, 448
Edwards, D. L., 437
Edwards, J. L., Jr., 104
Edwards, P. R., 504, 517
Edwards, R. G., 583
Edwards, R. W., 641, 655
Egami, F., 260, 276, 277
Egan, J., 613, 622
Egger, K., 36
Eggerer, H., 226, 235, 246, 250
Eggers, H. J., 555
Egorova, N. B., 649
Ehrenberg, A., 329, 330
Ehrenberg, L., 329, 330
Ehrlich, R., 649
Ehtisham-ud-din, A. F. M., 424, 431, 433
Eickhoff, T. C., 91, 496
Eidlic, L., 57, 116
Eigelsbach, H. T., 648, 649, 651
Eimhjellen, K. E., 292, 293, 294, 296, 300, 304, 305, 307, 313
Eischer, M., 512
Eisele, C. W., 513, 642
Eisen, H., 623
Eisen, H. A., 620, 628
Eisen, H. N., 192, 193
Eisenstadt, J., 402, 403
Eisenstadt, J. M., 43
Eisinger, J., 330
Eissa, A. A., 505
Ekelöf, E., 107
Ekert, B., 336
Eklund, C. M., 470, 471, 472, 489, 490
Elder, J. K., 509
Eliason, E. E., 586
Elkind, M. M., 152
Ellar, D., 429, 438
Ellemann, G., 508
Ellenbogen, L., 133
Elliker, P. R., 355
Ellington, E. V., 250
Elliott, R. P., 102, 103, 107, 108
Ellis, H., 512
Ellison, S. A., 347
El-Sawah, H., 507, 508
Elsden, S. R., 65, 139, 244, 286, 311, 312
Elson, H. E., 421, 436
Elsworth, R., 63
Elting, V., 580
Elvehjem, C. A., 239
Emerson, R., 104
Emerson, S. H., 51

Emery, A. J., Jr., 370, 371, 372
Emge, S., 508
Emma, V., 343
Emmerson, P. T., 356
Emrich, J., 401
Enders, J. F., 576
Endo, H., 260, 272
Engel, D. W., 342
Engelhardt, D., 400
Engelmann, T. W., 37, 297
Enger, M. D., 343
Englander, S. W., 405
Engle, M. S., 354
Englemen, E. P., 484
Englert, M. E., 84
Englesberg, E., 57, 59, 60
Ennis, H. L., 385, 391, 586, 587
Entel, H. J., 512
Entner, G., 154
Ephrussi, B., 574, 577, 578, 579, 581, 584, 590, 591, 592
Ephrussi-Taylor, H., 334
Epstein, C. J., 406
Epstein, H. T., 35, 39, 42, 43
Epstein, L. B., 188, 198
Epstein, R. H., 348
Epstein, W., 614, 620
Erikson, D., 104
Eriksson, B., 508
Erling, H. G., 507
Erwin, J., 43, 226
Erwin, N. S., 614
Eschel-Zeissman, R., 174
Esplin, D. W., 454
Evans, A., 370, 372, 373
Evans, D. H., 53
Evans, E. P., 592
Evans, M. C. W., 312, 313
Evans, V. J., 575
Eveland, W. C., 656
Evenchik, Z., 102
Everett, G. A., 353, 389
Everett, N. B., 182, 183
Everhart, D. L., 259
Evison, L. M., 102, 113
Evreinova, T. N., 75
Evtimov, I., 506
Ezekiel, D. H., 375

F

Fahey, J. L., 189, 577, 579
Faiman, L. E., 116
Falaschi, A., 370, 372
Falcao d Morais, J. O., 82
Falk, L. L., 504
Falkow, S., 266, 319, 444, 602
Fancher, H., 370, 371
Fangman, W. L., 56
Fanshier, L., 550
Fantová, Z., 511, 512
Farina, G., 85
Farley, B., 578, 580, 584
Farnes, P., 188
Farrell, J., 101-20; 102, 106, 107, 108, 110, 113, 115
Fauconnet, M., 162, 164
Faulkner, R., 403, 406
Fauve, M. R., 453, 460
Favelukes, G., 395
Favero, M. S., 641, 655
Fawaz-Estrup, F., 353
Fedorov, V. D., 292, 297, 305
Fedorov, V. I., 655
Feils, G., 508
Feinberg, R. J., 648
Feiner, R. R., 347
Fekete, E., 532
Feldman, D. G., 533, 552
Feldman, M., 165, 173, 174, 177
Feldmann, H., 388, 389
Feldschreiber, P., 359
Felix, A., 111
Fell, H. B., 581
Felsenfeld, G., 387
Felton, L. D., 158
Feodorov, V., 510, 511
Feodossjuk, R. Ja., 511, 512
Feodtov, B. N., 508
Fergus, C. L., 87
Ferguson, E. W., 667
Fernández Morán, H., 370
Ferrandes, B., 428, 430, 433, 438
Ferraresi, R. W., 159
Ferrari, A., 81
Ferrari, L., 506, 510
Ferreira, I., 460
Ferris, V. R., 111
Fessenden, J. M., 395
Festenstein, G. N., 87
Few, A. V., 431, 432, 433
Fey, F., 554
Fey, H., 502, 504, 508, 512, 515, 516
Field, E. J., 468, 472, 489, 490, 491
Fields, K. L., 271
Fields, M. L., 104
Fiers, W., 338
Fievez, L., 508, 510
Finch, B. W., 577, 579, 581, 584, 591
Finegold, I., 189, 577, 579
Fink, M. A., 542, 543, 545, 546, 552, 554, 557, 558
Finland, M., 91
Finlay, C. J., 647
Fioramonti, M. C., 575, 591
Fiore-Donati, L., 538, 552
Fischer, G. A., 577, 579
Fischer, M., 510, 512
Fischman, D. A., 436
Fisher, K. W., 603, 630
Fisher, R. G., 534
Fisher-Fantuzzi, L., 616
Fishman, M., 175, 185, 200
Fitch, F. W., 160, 199
Fitton-Jackson, S., 577, 578
Fitzgerald, R. J., 428
Fitz-James, P. C., 419, 420, 425, 427, 429, 438
Fjelde, A., 196
Flaig, W., 84
Flaks, J. G., 348, 349, 387
Flax, M. H., 160, 161, 162, 163, 166, 170, 191
Flikke, M., 555
Fling, M., 115
Flir, K., 508, 512
Flis, I., 507, 509
Flowers, A. J., 508, 509
Fluke, D. J., 342, 343, 345, 348
Fogg, G. E., 103, 302
Foley, A. R., 512, 513
Folkers, K., 239
Fonseca, J. R., 36
Fontenaille, P., 508
Forage, A. J., 354
Forbes, I. J., 189
Ford, C. E., 159, 559, 574, 592
Ford, W. L., 176, 183
Formal, S. B., 455
Formica, J. V., 238, 239
Foster, J. W., 24
Foster, M. A., 130, 131, 138
Foter, M. J., 110, 501, 511, 512
Fothergill, L. D., 642, 643, 648, 651, 653, 659
Fottrell, P. F., 586, 587
Foulkes, J. B., 109
Fournier, J., 506
Fowler, A. V., 375
Fowlks, W. L., 144
Fox, C. F., 369, 370, 371, 372, 373, 434, 437, 438
Fox, E., 355, 358
Fraenkel, D., 615
Fraenkel, D. G., 56, 57
Fraenkel-Conrat, H., 344, 371
Franceschini, P., 594
Francony, R., 510
Frank, H., 421, 436, 445
Frank, H. A., 108

Frank, J. F., 513
Franklin, N. C., 388, 609, 611
Franklin, R. M., 369, 555
Franklin, T. J., 391
Fransen, J. G., 508, 512
Fraser, D., 619
Fraser, D. K., 625
Frazer, D., 348, 349
Frazier, N. W., 208
Frazier, W. C., 109
Fredericq, P., 258, 259, 261, 263, 264, 266, 267, 270, 275, 276, 605, 621
Freeman, B. J., 501
Frei, P. C., 175
Freimer, E. J., 430, 431, 432
Fremont-Smith, P., 652, 653
French, C. S., 103
French, R. C., 278
Fresco, J. R., 386, 402
Freshney, I., 586, 587
Frey, H., 510
Frey, J. R., 163
Frey-Wyssling, A., 35, 37, 39, 42
Frick, O. L., 186
Fricke, H. H., 93
Fried, P., 260
Friedkin, M., 131
Friedman, H., 159, 167, 169, 172
Friedman, R. M., 587
Friedman, S., 131
Friedman, S. M., 115, 575
Friedrich, W., 132
Freifelder, D., 339, 346, 347
Freifelder, D. M., 147
Friend, C., 534, 542, 543, 545, 552, 557
Fries, N., 52, 57, 103
Friesen, J. D., 375
Friewer, F., 642
Fritsch, A., 602, 608
Fritz, H. P., 246, 247
Fritzsche, R., 208
Frommhagen, L. H., 454
Frost, L. C., 102
Fruhling, L., 184
Fry, P. R., 215, 216, 218, 219, 220
Fu, C. K., 510
Fuchs, E., 369, 370
Fuckel, L., 82
Fuerst, C. R., 345, 346, 620, 625, 628
Fujimura, K., 272
Fujimura, R. K., 387
Fukada, T., 388
Fukasawa, H., 631
Fukatsu, S., 94
Fukuhara, A., 533
Fukui, S., 133
Fukunoga, K., 250
Fukushi, K., 426
Fuller, R. C., 39, 43, 300, 301, 302, 303, 311, 313, 419
Fulton, J. P., 208
Fulton, R. W., 210
Fung, J., 516, 518
Furagawa, Y., 94
Furculow, M. L., 651
Furmanski, P., 247, 249
Furness, G., 453, 459, 460, 461
Furth, J., 531, 532, 534, 536, 538, 552, 556, 558, 559, 560
Furth, J. J., 369, 370, 371, 372, 373
Furumai, T., 93
Futterman, S., 130

G

Gaffron, H., 28, 287
Gainer, J. H., 486
Gaines, K., 370, 371
Gaiser, P., 247
Gajdusek, D. C., 468, 469, 489, 491
Galanos, C., 448, 449
Galbraith, N. S., 507, 510, 511, 512, 513
Galibert, F., 552, 553
Gallant, J., 114, 375
Gallant, J. A., 620
Gallaway, J. L., 72, 88
Gallily, R., 177
Gallmeier, W. M., 542
Galston, A. W., 145
Galston, M., 496
Galton, M. M., 512, 515
Galusca, E., 507, 510
Gamble, C. N., 198
Gandon, Y., 508, 512
Ganesan, A. K., 358
Ganesan, A. T., 378, 429
Ganguly, J., 239
Ganoza, M. C., 405, 406
Gapochko, K. G., 649
Gardiner, A. C., 472, 473, 489, 490, 491
Gardner, R. S., 388
Garen, A., 343, 405
Garibaldi, J. A., 500
Garin, N. S., 649
Garren, H. W., 506
Garrett, R. G., 214, 215, 216
Gartland, W. J., 402
Gartler, S. M., 575, 585, 586, 589
Gartner, T. K., 58, 114, 115
Garvey, J. S., 172, 176
Gasic, G., 594
Gasparini, U., 512
Gasper, A. J., 652
Gattani, M. L., 83
Gaughran, E. R. L., 104
Gaush, C. R., 578
Gavrilov, V. I., 651
Gawlik, S. R., 43
Gaydamovich, S. Y., 651
Gazert, H., 107
Geering, G., 547
Gefen, N. E., 649
Geiduschek, E. P., 147, 369, 371, 373, 374, 388
Geldner, J., 533, 534, 539, 540, 543, 548, 549, 550, 552, 555
Gelehrter, T., 585, 587, 588
Geleick, H., 163
Gelinas, R., 102
Gell, P. G. H., 163, 188, 197
Gellert, M., 608
Gelman, N. S., 425, 426, 431, 433, 434, 436
Gelzer, J., 460
Gemski, P., 263, 603, 604, 630
Genovese, S., 288
Genth, H., 503
Genuth, S. M., 384
Georg, L., 77, 78
George, J. A., 206
George, M., 191
Georgi, C. E., 105, 436
Gerber, N. N., 88, 89, 95
Gerber, P., 552, 554
Gerloff, R. K., 652
Gerone, P. J., 647, 650
Gerowin, L. D., 246
Gerschenson, L. E., 580
Gershon, D., 591
Gershon-Cohen, J., 552, 555
Gerstein, M. J., 106
Gerstenberger, A., 146
Gerughty, R. M., 190
Gery, I., 177, 178
Gesner, B. M., 199, 594
Gest, H., 18, 286, 287, 310, 311, 312, 314, 315, 345
Gesteland, R. F., 603, 630
Ghiron, C. A., 144
Ghosh, B. K., 420, 421, 427, 431
Ghosh, G. K., 509
Ghoshe, D. N., 511
Ghuysen, J. M., 430
Gibbon, J. A., 301
Gibbons, N. E., 102, 113, 436
Gibbs, A. J., 208, 209, 210

Gibbs, C. J., 469, 489, 491
Gibbs, M., 43, 311
Gibbs, S. P., 35, 36, 37, 39, 301
Gibor, A., 43
Gibson, D. M., 239
Gibson, J., 245, 313
Gibson, T., 109
Gierer, A., 343, 344, 377, 385, 396
Giesberger, G., 293
Giesbrecht, P., 294, 300, 301, 304
Gilbert, W., 384, 385, 387, 388, 389, 390, 391, 393, 394, 396, 403, 404, 407, 408
Gilby, A. R., 431, 432, 433
Gilden, A. J., 564
Gillespie, D., 652
Gillespie, J. R., 481, 483
Gillies, N. E., 354
Gilvarg, C., 57
Ginoza, W., 325-68; 332, 333, 337, 338, 340, 342, 343, 344, 345, 346, 347, 359
Ginsburg, H., 556, 557, 558
Girard, M., 386, 388
Girard, R., 451
Girardi, A. J., 564, 576
Giron, M. L., 369
Gisalason, G., 482
Glad, B. W., 154
Gladstone, L., 369
Glassman, E., 384
Glassman, H., 654, 655
Glassmann, H. N., 641, 643
Glauert, A. M., 73, 84, 425
Gleiser, C. A., 656
Glick, M. C., 577, 583
Glover, J., 311
Gluchowzewa, S. N., 511, 512
Glucksmann, S., 151, 152
Glynn, J., 549
Gochenour, W. S., 642, 647, 651, 656
Gochenour, W. S., Jr., 649, 654, 655
Godman, G., 577, 578
Godts, A., 43
Goebel, W. F., 259, 446
Goedheer, J. C., 289
Goerttler, V., 509, 510, 512
Gogotov, I. N., 312
Gohar, M. A., 505
Goheen, A. C., 206, 208, 209, 210, 212
Gojdics, M., 31, 34, 37, 39
Gold, A. H., 208, 218, 219, 220
Goldberg, A., 390
Goldberg, B., 576, 577, 578, 581, 582, 584, 588
Goldberg, I. D., 54
Goldberg, I. H., 369, 370, 372
Goldberg, L. J., 654
Goldberger, R. F., 388, 398, 399, 401, 405, 406
Goldblith, S. A., 102, 107, 499, 500
Golde, A., 361
Goldemberg, S. H., 44
Goldfine, H., 232, 233
Goldhaber, P., 590
Goldin, A., 549
Goldman, J. K., 228, 237, 238
Goldman, M., 653
Goldman, P., 227, 228, 230, 235
Goldman, P. J., 228
Goldmann, M., 370, 372
Goldschmidt, E. P., 614
Goldschmidt, M. E., 110
Goldsmith, M., 551
Goldsmith, T. H., 36, 39
Goldstein, A., 114, 377, 385, 394
Goldstein, D. B., 114
Goldstein, E., 647
Goldstein, J., 388, 399
Goldstone, A., 250
Goldthwait, D. A., 371
Goldthwaite, C. D., 260, 268, 278
Goldthwaite, D. A., 602, 608
Goldwasser, R., 667
Golosow, N., 583
Gomatos, P. J., 369
Gonano, F., 388
Good, R. A., 199, 550, 551
Goodey, J. B., 213
Gooding, G. V., 208, 210, 212
Goodlow, R. J., 647, 654, 655
Goodman, H. M., 396, 397, 398, 405, 406
Goodman, S. B., 539, 540
Goodner, K., 652
Goodwin, R. F. W., 481, 482, 489
Goodwin, T. W., 43, 309
Gopalkrishnan, K. S., 83
Gordon, A., 39, 43
Gordon, H. P., 580
Gordon, M. A., 79
Gordon, R. E., 75, 77, 78, 86, 88
Gordon, R. F., 506
Gordy, W., 329, 330, 331, 332
Gorelick, A. N., 654
Gorer, P. A., 547
Goresline, H., 500
Gorham, J. R., 467, 477, 478, 479, 480, 487, 489, 490
Gorini, L., 52, 56, 407, 408
Gorlenko, J. M., 373
Gorrie, J., 481, 488
Gorski, J., 369
Gosh, R. N., 511
Gössel, I., 37
Gott, C. L., 110
Gottlieb, D., 82
Gottschalk, G., 61
Gould, J. R., 650, 652
Gouré, L., 641
Gout, P. W., 388, 390, 398, 405
Gowans, D., 198
Gowans, J. L., 159, 166, 169, 176, 181, 182, 183, 200
Gowland, G., 160, 161
Grabar, P., 451
Grace, J. T., Jr., 533, 534, 536, 543, 545, 557, 579
Grady, L., 356
Graffi, A., 533, 534, 549, 552, 554, 557, 558
Graham, A. F., 278, 387
Graham, M. G., 259
Gramatikovski, G., 506
Granboulan, N., 552
Granick, S., 43, 151, 586
Granner, D., 585, 587, 588
Granville, A., 508
Gratia, J. P., 274
Grausgruber, W., 508, 512
Graviere, P., 510, 512
Gray, G. W., 446
Gray, J. G., 166, 197
Graziosi, F., 343, 347, 374, 388
Green, A. W., 536, 539, 540
Green, D. E., 238, 418, 434
Green, G. M., 647
Green, H., 573-600; 574, 575, 576, 577, 578, 581, 582, 583, 584, 588, 591, 593, 594
Green, J. P., 577, 579
Green, M., 53
Green, M. H., 373, 374, 386, 388
Greenawalt, J. W., 426, 437
Greenberg, B., 512
Greenblatt, C. L., 42
Greenspan, C. M., 374, 388
Greenspan, I., 543
Greenwood, M., 457
Greer, S., 147, 333
Gregolin, C., 242, 243, 244

Gregorovic, V., 507, 512
Gregory, P. H., 86, 87
Grein, A., 73
Grew, H., 590, 592
Grey, C. E., 532, 552
Griffin, G. D., 208
Griffin, M. J., 585, 587
Griffith, W. R., 649
Griffiths, J. M., 109
Griffiths, M., 151, 306
Grimenez, D. F., 648
Grimsson, H., 482
Grobstein, C., 581, 583, 588
Grogan, R. G., 205-24; 206, 208, 210, 211, 212, 214, 215, 216, 218, 219
Gros, F., 116, 369, 370, 371, 372, 373, 374, 375, 384, 387, 388, 393, 394, 398, 403, 405, 626, 627
Gross, J., 383
Gross, J. A., 42
Gross, J. D., 56, 263, 279, 604, 607, 628, 630, 632, 633
Gross, L., 531, 532, 533, 534, 536, 538, 542, 543, 546, 552, 554, 557
Gross, S. R., 248, 250
Grossfeld, H., 577, 578
Grossi, L. G., 384, 394
Groulade, P., 509
Groupé, V., 666
Grull, G., 239
Grumbles, L. D., 508, 509
Grumm, I., 250
Grunberg-Manago, M., 407
Gudnadottir, M., 473, 474, 475, 482, 489, 490
Guest, J. R., 130, 131
Guild, W. R., 326, 334, 337, 388
Guinee, P. A. M., 507, 508, 509, 510, 512
Gumport, R. I., 369, 371
Gunaris, A. D., 57
Gunderson, M. F., 107, 109
Gunnes, M., 239
Gunsalus, I. C., 139
Gupta, B. R., 508, 512
Gupta, K. C., 90
Gurin, S. J., 239, 242
Gurturk, S., 507
Guryca, V., 512
Gussew, W., 508
Gussin, G. N., 388, 405
Gussow, R., 512
Gustafson, D. P., 473
Guthrie, S., 339, 343
Guttman, B. S., 388, 405
Gutz, H., 102
Guynon, J. F., 249
Guysen, J. M., 650
Guyton, H. G., 653
Gwatkin, R. B. L., 583
Gyllang, H., 428

H

Haagen-Smit, A. J., 383
Haas, V. H., 655
Haber, E., 189, 406
Hack, M. H., 43
Hackett, S., 469
Haddaw, A., 549
Hadlok, R., 508, 512
Hadlow, W. J., 470, 471, 472, 489, 490, 491
Haenni, A.-L., 403
Haeske, E., 215
Hagan, J. G., 512
Hagen, A., 234, 235, 236
Hagen, P.-O., 102, 109, 112
Hagen, U., 338, 339, 351
Hagens, F. M., 509
Hagens, S., 551
Hager, L. P., 57
Haguenau, F., 552
Haig, D., 472, 473, 489, 490, 491
Haines, R. B., 109, 326
Hall, B. D., 374, 384, 386, 387, 388
Hall, C. E., 370, 371, 388, 396, 397, 398, 405
Hall, J. G., 183
Hall, L. B., 650
Hall, R. P., 31
Hall, T., 483, 491
Halldal, P., 37, 103
Halle, S., 429
Halpern, B. N., 159, 455
Halpern, Y. S., 114, 115
Halvorson, H. O., 393, 407
Ham, A. W., 552
Hamada, M., 94
Hamada, S., 507, 508
Hamburger, C., 37
Hamerman, D., 577, 578, 584, 591
Hamerton, J. L., 559, 574
Hamilton, M. G., 385
Hammer, D., 509, 510
Hamon, Y., 258, 259, 266, 269, 272, 273
Hanaoka, M., 183, 265
Hanawalt, P. C., 43, 357, 377
Hancock, L. R., 369
Hancock, R., 429
Hancock, R. L., 369
Hansen, N. H., 102, 518
Hansen, R., 500, 508
Harada, K., 453
Haran-Ghera, N., 541
Harary, I., 577, 578, 580, 584
Hard, W. L., 578
Hardesty, B., 396, 397, 398
Hardy, A. V., 512
Harker, D., 406
Harm, W., 347
Harms, F., 508
Harold, F. M., 54, 56
Harold, R. L., 54, 56
Harper, G. L., 654
Harrell, B., 186
Harriman, P. D., 349
Harrington, B. J., 75
Harrington, H., 351
Harris, H., 74, 592
Harris, J. I., 387, 399, 403
Harris, M., 573, 574, 593
Harris, M. M., 650
Harris, S., 177, 186
Harris, S. A., 239
Harris, T. N., 177, 186
Harris, W. W., 557, 558
Harrison, A. P., Jr., 143-56; 147, 149, 150
Harrison, B. D., 206, 207, 208, 209, 210, 212
Hart, E. J., 335
Hart, W. H., 208
Hartford, T. J., 644, 662
Hartley, J. W., 543, 544, 557, 563, 564, 565
Hartman, P. E., 62, 388, 398, 401, 405
Hartsough, G. R., 470
Haruna, I., 369, 371
Harvey, J. J., 562, 563
Harvey, R. W. S., 512
Hasek, M., 158, 159
Haselkorn, R., 370, 371, 372
Hashimoto, H., 456, 508
Hashimoto, T., 74
Haskin, M. A., 433
Haskins, W. T., 424
Hatch, M. T., 653
Hatch, T., 647
Hatch, T. F., 643
Hathaway, J. C., 309
Haug, E., 512
Haughton, G., 545, 546, 547, 549
Haurowitz, F., 184
Hauschka, T. S., 559, 576, 577, 580, 591
Hauser, K. W., 508
Hausmann, W., 153
Haut, W. F., 377
Havlik, O., 642, 643, 644, 645, 646, 649, 651, 657
Hawirko, R. Z., 299
Hayaishi, O., 50
Hayashi, M., 373, 374, 388
Hayashi, M. N., 373, 374, 388
Hayashi, S., 585, 587, 588
Hayatsu, H., 388, 401, 405
Hayes, D., 369-82; 372, 373

Hayes, D. H., 369, 370, 372, 373
Hayes, F. N., 370
Hayes, W., 603, 604
Hayflick, L., 574, 575, 576, 578
Haynes, R. H., 148, 333, 355
Healther, C. D., 508
Heath, E. C., 446, 448
Hecht, L. I., 369, 384, 394
Hedberg, M. A., 648
Hedén, C.-G., 639-76; 649, 652, 662, 666, 667
Hedges, A. J., 270
Hegeman, G. D., 56, 58
Hegge, E., 307, 309
Heilman, D. H., 186, 190
Heine, U., 552
Heiniger, P. K., 103
Heinmets, F., 145
Heintz, R., 353, 392, 393, 394, 396, 403
Helgadóttir, H., 474, 476, 482
Helinski, D., 260
Helinski, D. R., 263, 264, 265, 266, 267, 268, 407, 444
Heller, E., 587
Heller, G., 391
Hellström, K. E., 189, 547
Helmbolt, C. F., 509
Helmcke, J. G., 552
Helyer, B. J., 481, 487, 489, 490, 491
Hems, C., 336, 337
Henderson, D. W., 648, 657
Hendler, R. W., 437, 438
Hendley, D. D., 310, 314, 317
Hendrickson, R., 550, 551
Henglein, A., 335
Henis, Y., 650, 652
Henning, U., 57, 620
Henrici, A. T., 82
Henriksen, T., 332, 342
Henry, C. C., 186
Henry, J., 369, 370, 372
Hense, B., 511
Henson, J. B., 477, 478, 479, 480, 487, 489, 490
Henssen, A., 86, 87, 88
Heppel, L. A., 386, 423, 438
Herak, J. N., 330
Herbert, D., 63, 64
Heredia, C. F., 393
Herr, R. R., 90
Herriot, R. M., 278
Herrler, H., 512
Herrmann, H., 581
Hersch, R. T., 387
Hershenov, B., 43
Hershey, A. D., 278, 343, 345, 387, 607, 608
Hershko, A., 385
Hertl, L., 620
Hertman, I., 266, 616
Hervey, A., 42
Herz, C., 57
Herz, F., 585, 586
Herzberg, M., 453
Herzog, H. L., 91
Hess, G. E., 653
Hesseltime, C. W., 84
Heston, W. E., 560
Heumann, W., 53
Hewitt, R., 377
Hewitt, W. B., 205-24; 206, 208, 209, 210, 211, 212, 215, 216
Heymann, H., 430
Hiatt, H. H., 384, 387, 388, 393, 403
Hickie, G. C., 513
Hidaka, Z., 217
Hidik, M., 507, 508
Hierowski, M., 391
Higa, A., 387, 388
Higashi, Y., 261, 277
Higgins, M. L., 85
Highley, D. R., 133
Higuchi, T., 446
Hilbrich, P., 508
Hildemann, W. H., 187
Hildick-Smith, G., 72
Hildreth, E. A., 162, 195
Hilfer, S. R., 584
Hill, C., 258, 274
Hill, C. H., 506
Hill, H. Z., 42
Hill, L. R., 75, 110
Hill, R. F., 150, 347, 358
Hille, M. B., 403
Hillier, J., 425, 429
Hilson, G. R. F., 73
Hinkson, J., 311
Hinsdill, R. D., 259
Hinuma, Y., 577, 579
Hiraga, S., 55, 60
Hirano, T., 74
Hirose, Y., 67
Hirota, Y., 53, 263, 264, 604, 614, 621
Hirsch, P., 74, 295, 299, 301
Hirschbein, L., 372
Hiruki, C., 216, 217, 220
Hisatsune, K., 420
Hnilica, L. S., 375
Ho, P. P. K., 129
Hoagland, M. B., 384
Hoare, D. S., 301, 313
Hobbs, B. C., 499, 501, 510, 513
Hobbs, G., 107
Hobbs, G. L., 575, 591
Hobson, D., 456
Hodapp, F. A., 667
Hodgkiss, W., 84
Hoelle, C. J., 338
Hoffman, D. D., 613
Hoffman, E., 377, 378, 632
Hoffman, F., 554
Hoffman, J. G., 536
Hoffman, R. K., 641, 655
Hoffmann, D., 509
Hoffmann, K., 239
Hofmann, P., 508
Hofschneider, P. H., 369, 370
Hofstra, K., 507, 509, 510, 512
Hogg, L., 54, 55
Hogge, A. L., 657
Hogness, D. S., 608, 613, 622
Hohage, J., 515
Hohner, L., 509
Holbert, P. E., 74, 82, 84
Holborow, E. J., 162, 164, 191
Holland, I. B., 258, 259, 261, 266, 270, 274, 277
Hollaender, A., 148, 150, 354
Holley, R. W., 353, 384, 388, 389
Hollings, M., 74
Hollingworth, B. R., 385, 386
Holmes, B., 342
Holmes, D. E., 330
Holmes, M. C., 481, 488
Holmqvist, H., 509, 510
Holt, A. S., 305
Holt, St. C., 300, 302, 303, 419
Holtan, H., 288, 299
Holtzer, H., 576, 577, 578, 581, 583, 584
Holtzer, S., 577, 581
Holwill, M. E. J., 36
Hölzer, B., 550
Homma, J., 55
Homma, J. Y., 260
Hommes, F. A., 583
Honda, T., 456
Honigberg, B. M., 31
Hoogendam, B. W., 388, 390, 398, 405
Hooper, D. J., 213
Hopkins, J. W., 386, 387
Hopper, I., 235, 236
Hopper, M. E., 72
Hopper-Kessel, I., 226, 235
Hopps, H. E., 578
Hopwood, D. A., 73, 84, 85
Horan, P., 328
Horecker, B. L., 56, 57,

417, 418, 437, 443, 445, 446, 448, 449
Horecker, L. A., 423, 438
Hori, M., 94
Horibata, K., 407
Horiuchi, T., 58, 114, 115
Horne, R. W., 437
Hornick, R. B., 648, 649
Horning, M. G., 235, 236, 239
Horowitz, N. H., 115
Horsfield, A., 342, 346
Horsten, L. J., 512
Hosel, G., 259
Hoshino, T., 540
Hosokowa, K., 272, 387, 408
Hotchin, J., 469, 487
Hotta, E., 484
Hotz, G., 332, 333, 342, 343, 359
Houssais, J. F., 388
Houwink, A. L., 302, 423
How, M. J., 417
Howard, E. B., 478, 479
Howard, J. G., 456, 457
Howard-Flanders, P., 326, 356, 357, 358, 359, 614, 616
Howarth, S., 262
Howe, C. D., 543, 557, 558
Howell, R. R., 591
Howie, J. B., 481, 487, 489, 490, 491
Hraba, T., 158, 159, 186
Hradecna, Z., 627
Hsu, K. C., 422
Hsu, R. Y., 228, 236, 237, 251
Hsu, T. C., 559, 574
Hsu, W.-T., 369, 373
Hu, A. S. L., 407
Hu, C. C., 191, 193
Hu, F., 577, 579
Huang, C. Y., 477, 481, 488
Huang, K. T., 94
Huang, P.-C., 386, 387
Huang, R. C., 369, 374
Huang, S., 387
Huber-Pestalozzi, G., 33, 35
Hucker, G. J., 109
Hudack, S. S., 457
Hudson, J. R., 485
Huebner, R. J., 543, 544, 557, 564, 565
Huennekins, F. M., 129, 130
Huet, M., 511
Hufnagel, D. A., 43
Hughes, D. E., 313
Hughes, D. W., 305
Hughes, H. L., 510, 512
Hughes, W. F., 550
Huguelet, J. E., 208
Huisman, J., 509
Hulanicka, D., 43
Huling, R. T., 41
Hulsmann, W. C., 242
Hultin, H., 383
Hultin, T., 395
Hultsch, M., 512
Hummel, K. P., 579
Hummeler, K., 186
Humphrey, A. E., 64, 65
Humphrey, J. H., 167, 168, 171, 172, 184, 185
Hungate, R. E., 50, 74, 122, 124
Hunt, J. A., 371
Hunter, J. R., 102, 111, 114
Huppert, J., 369
Hurlbert, R. B., 375
Hurlbert, R. E., 296, 310, 312, 313, 314
Hurn, B. A. L., 198
Hurwitz, J., 369, 370, 372, 373, 374, 375
Hurych, J., 590
Hutchinson, C. A., 348
Hutchinson, F., 326, 333, 334, 337, 343, 345, 350
Hutner, S. H., 42, 43, 50, 294, 315
Hütter, R., 96
Hutton, J. J., 259, 396, 397, 398
Huzisige, H., 42
Hwang, M.-I. H., 388, 396
Hyde, J. L., 22
Hyslop, N., 194

I

Ibbott, F. A., 432
Ichikawa, Y., 580, 584
Ida, N., 533, 559
Idoine, L. S., 650
Ignatov, G., 509
Iida, Y., 509, 511
Iijima, T., 267, 604
Iitaka, Y., 94
Ijichi, K., 501
Ikeda, K., 260, 276, 277
Ilijna, T. S., 55
Imai, K., 250
Imai, M., 385
Imamoto, F., 62, 388, 398, 401, 405
Imshenetsky, A. A., 652
Ingalls, R. B., 330
Ingraham, J. L., 57, 102, 106, 108, 112, 113, 114, 115, 249
Ingraham, J. S., 186
Ingraham, L., 343, 607, 608
Ingram, M., 501
Ingram, V. M., 404, 405
Inman, D. R., 182
Inman, R. B., 376, 608
Inouyi, M., 401
Inutuko, U., 53
Ioachim, H., 556, 558
Ionesco, H., 260
Ionescu, S., 507, 510
Irion, E., 126, 132, 133, 138
Irion, W., 132, 133
Irmiter, T. F., 499
Irr, J., 59
Isaacs, L. N., 268, 627, 628
Isaak, P. K., 299
Isachenko, V. M., 659
Isakovic, K., 175, 177
Ishada, M., 431, 432
Ishibasi, S., 621
Ishida, T., 53
Ishidate, M., Jr., 539
Ishidawa, A., 484
Ishihara, H., 55
Ishii, H., 551
Ishii, S., 260, 480, 487, 489
Ishikawa, S., 433
Ishimoto, N., 582, 584
Ishizawa, M., 272
Isono, K., 94
Issahary-Brand, G., 102
Itano, H. A., 405
Ito, E., 94
Ito, J., 62, 388, 398, 401, 405
Ito, T., 539, 540
Ito, Y., 93
Ivanovics, 258, 259, 261, 277, 278
Iyer, V., 53
Iyer, V. N., 358
Izumi, T., 195

J

Jacherts, B., 353
Jacherts, D., 353
Jackman, L. M., 307, 309
Jackson, A. L., 186
Jackson, J., 372, 376
Jackson, T. F. M., 510, 513
Jacob, F., 61, 116, 257, 261, 264, 265, 266, 267, 269, 270, 274, 276, 279, 375, 377, 378, 384, 387, 388, 405, 428, 438, 444, 588, 602, 603, 604, 605, 608, 614, 619, 620, 621, 623, 624, 625, 626, 628, 629, 630, 632
Jacob, G. A., 56
Jacob, J. M., 370, 372
Jacobs, I., 477

Jacobs, J., 509
Jacobs, M. B., 106
Jacobs, N. J., 427, 500, 508
Jacobsen, B., 214
Jacobson, B., 246
Jacobson, G., 656
Jaeger, R. F., 652
Jaenicke, L., 138
Jagger, I. C., 215
Jahn, T. L., 31, 32, 33, 36, 42
Jahncke, A., 457
Jahnke, H. K., 90
Jakobson, R., 144
James, E., 508
James, S., 154
James, T. W., 41
Jamieson, J. D., 425
Jampolskaja, W. A., 511, 512
Jankov, G., 509
Jann, B., 447, 448
Jann, K., 443, 445, 446, 448, 449, 451
Jannasch, H. W., 49-70; 64, 65
Jansen, C. R., 166
Jansz, H. S., 339
Jaouni, T., 388, 401, 405
Jaouni, T. M., 372
Jarret, O., 575
Jayaraman, K., 59
Jencks, W. P., 395
Jenkin, C. R., 274, 455, 457, 458, 460, 461
Jenkins, D. W., 646, 651, 653
Jenkins, P. A., 87
Jenkins, V. K., 559
Jenkins, W. R., 209, 213
Jensen, A., 294, 304, 305
Jensen, E. M., 557, 558
Jensen, F. C., 564, 576
Jensen, H. J., 208
Jensen, K. A., 457
Jensen, M. M., 654
Jensen, S. L., 226
Jensen, T. E., 302
Jenski, J. V., 641
Jepsen, A., 502, 504
Jerlov, N. G., 289
Jerne, N. K., 186, 551
Jervis, G. A., 642
Jha, A., 206, 208, 210, 211
Jobse, A. S., 508
Johanovsky, J., 196
John Brooks, St. R., 506
Johne, H., 513
Johns, A. T., 125
Johns, H. E., 354
Johns, L. W., Jr., 552, 554, 555
Johnson, A. G., 451
Johnson, A. W., 131, 132
Johnson, E. B., 342
Johnson, L. M., 444
Johnson, R. A., 378
Johnston, H. H., 513
Joklik, W. K., 386, 587
Jolit, M., 57
Jondorf, W. R., 586, 587
Joneja, M. G., 559
Jones, D. S., 372, 388, 401, 405
Jones, G. E., 109
Jones, J. P., Jr., 484
Jones, L. A., 80
Jones, M. T., 327
Jones, O. W., Jr., 388, 407
Jones, R. O., 592
Jones, S., 512
Jones, T. C., 487
Jones, V. E., 163, 174
Jordan, E., 161
Jordon, E. O., 111
Jorgensen, G., 377
Joske, R. A., 488
Josse, J., 348, 376
Jost, M., 302
Joubert, L., 510
Joyner, A., 268, 627, 628
Juday, C., 298
Julien, J., 374
Jungwirth, C., 250
Juniper, B., 35, 37
Jurkowitz, L., 369
Jurkowitz, M. S., 369
Jutting, G., 241
Juva, K., 406

K

Kabat, S., 386, 387
Kabuto, M., 511
Kadlecova, V., 590
Kadoya, M., 376
Kadull, P. J., 652, 656
Kaesburg, P., 343
Kageyama, M., 260, 276, 277
Kahan, B., 194
Kahan, F. M., 374, 388
Kahn, P. L., 263, 264, 265, 266
Kahn, R. H., 577, 578
Kahn, R. P., 207, 209
Kahn, V., 40
Kaiser, A. D., 376, 608, 619, 625
Kaiser, P., 288, 291
Kaji, A., 310, 386, 391, 408
Kaji, H., 391, 408
Kajima, M., 552
Kalakoutskii, L. V., 79, 80, 86, 95
Kaliaeva, E. S., 55
Kalintseva, L. I., 506
Kalli, S., 508
Kallio, R. E., 226
Kalmykova, G. Ya., 94
Kalocsky, M., 552, 555
Kamel, H. M., 508
Kamen, M. D., 18, 22, 24, 286, 287, 311, 314, 315, 345
Kameneva, S. V., 55
Kameyama, T., 352
Kamiya, T., 272
Kampelmacher, E. H., 507, 508, 509, 510, 512, 515, 517, 518
Kanai, K., 196
Kandler, O., 425, 426
Kanitz, C. L., 473
Kanner, L. C., 369, 373
Kantor, G. J., 358
Kaplan, A. S., 377
Kaplan, H. S., 326, 333, 355, 360, 534, 535, 538, 539, 540, 541, 556, 560
Kaplan, I. R., 309
Kaplan, M., 661, 662, 664, 667
Kaplan, M. M., 651
Kaplan, R. W., 144
Kaplan, S., 405, 406
Karlsbad, G., 182, 185, 188
Karlson, K. A., 511, 513
Karlsson, K., 509
Karlstrom, O., 67
Karmen, A., 235
Karnofsky, M. J., 159, 169
Karol, W., 557, 558
Karon, M., 545
Karstad, L., 479, 489, 490
Karush, F., 192, 193
Kasai, N., 446
Kass, E. H., 647
Kass, L. R., 232
Kassanis, B., 217, 218, 219, 220
Katagiri, M., 94
Kataja, E., 408
Kates, M., 112, 226, 431
Kato, T., 133
Kato, Y., 265
Katsuya, N., 62
Kaudewitz, F., 51
Kauffmann, F., 445, 447, 448, 451, 452, 454, 497
Kaufman, H., 52, 56
Kaufmann, A. F., 651
Kawade, Y., 388
Kawakami, M., 438, 453, 455, 456, 459
Kawamura, N., 559
Kawata, T., 420
Kay, D., 260
Kayajanian, G., 622
Kaye, A. M., 369, 370

Kaziro, Y., 240, 246, 247, 277
Keane, M., 42, 43
Kearney, C. L., 57, 115
Kearns-Preston, U., 552
Keck, K., 348, 349, 351
Keech, M. K., 576, 577, 578
Keefer, G. V., 650
Kegler, H., 208
Keighley, G., 383
Keir, H. M., 375
Kellenberger, E., 260, 267, 421, 425, 426
Kellenberger, G., 260, 267, 616
Keller, E. B., 383, 384, 394, 395
Keller, H. J., 246, 247
Kellerman, G. M., 246, 247
Kellermeyer, R. W., 246
Keller-Schierlein, W., 95, 98
Kelly, H., 311
Kelly, J. W., 506
Kelser, R. A., 658
Kemp, S. D., 653
Kempf, J., 184
Kempner, E. S., 103
Kende, H. J., 305
Kennedy, E. P., 434, 437, 438
Kennedy, J. C., 186, 187
Kennedy, J. W., 345
Kennedy, R. C., 470, 471, 472, 489, 490
Kent, R., 336, 339
Kenyon, A. J., 478, 479
Kepes, A., 113
Kern, M., 407
Kerr, P. C., 43
Kerwar, S. S., 62
Kessel, D. H., 56
Kessler, D. P., 57, 60
Kethley, T. W., 650
Keynan, A., 102, 387, 388
Khera, S. S., 507, 508, 509
Khesin, K. B., 373
Khokhlov, L. I., 649
Khoklova, Yu. M., 94
Khorana, H. G., 370, 372, 376, 382, 388, 401, 405
Kida, S., 62, 388, 398, 401, 405
Kieswalter, J., 509
Kihara, H. K., 407
Kiho, Y., 388, 405, 407, 409
Kikuchi, G., 250
Kikuchi, Y., 577, 579, 581
Kilbourne, E. D., 651
Kilham, L., 476, 487
Kil Un Uang, 512
Kimble, K. A., 215, 216
Kimura, S., 93
King, H. K., 433
Kirillova, N. F. A., 80
Kiritani, K., 102
Kirk, J. T. O., 35, 37, 43, 369
Kirkwood, S., 43
Kirschbaum, A., 531
Kiseleva, N. P., 371
Kitahara, K., 431, 432
Kitchen, S. F., 642
Kits Van Waveren, E., 556
Kjeldgaard, N. O., 114, 116
Kjellander, J., 510, 511
Klebahn, H., 302
Klebs, G., 32, 33, 37
Klein, E., 543, 545, 546, 547, 549, 550, 551
Klein, G., 543, 545, 546, 547, 549, 550, 551
Klein, H., 511
Klein, H. P., 239
Klein, J. O., 91
Kleinschmidt, A. K., 242, 243, 244
Kleinsmith, L. J., 579
Klemenc, N., 507, 512
Klemme, J., 294, 310, 311
Klieneberger-Nobel, E., 73
Kline, R. W., 503
Klineberg, J. R., 591
Kluyver, A. J., 10, 11, 13, 23, 26, 50, 123, 126, 128
Knappe, J., 241
Knaysi, G., 102
Kneffel, P., 511, 512
Kneser, H., 51
Knight, M., 245
Knight, V., 647, 650
Knopf, P. M., 385, 396, 397, 404
Knorr, K., 664
Knox, K. W., 446
Knox, R., 114, 115
Knox, W. E., 585
Kobayashi, J., 509, 511
Kobayashi, K., 480
Kobayashi, R., 456
Kobayashi, Z., 457
Koch, A. L., 113
Kochan, I., 195
Koch-Weser, D., 246
Kocun, F. J., 433, 438
Kodani, K., 577, 578
Kodani, M., 577, 578
Kodicek, E., 431
Koffler, H., 104, 105, 148
Koga, S., 64, 65
Kögl, F., 239
Kohiyama, M., 116, 267, 268
Köhler, K., 386
Köhnlein, W., 329, 333
Koike, M., 420
Kolakofsky, D., 401, 402, 403
Kolb, J. J., 431, 432
Kolber, A. R., 434, 437
Koldovsky, P., 545, 550
Kole, A. P., 214
Kolin, A., 196
Koller, P. C., 559, 560
Kolmer, W., 153
Kolotilova, L. V., 506
Kölsch, E., 187
Kon, W. A., 513
Kondo, Y., 67
Kondratieva, E. N., 286, 292, 294, 297, 305, 307, 309, 312, 314, 315
Konev, Iu. E., 90
Koniev, Iu. E., 81
Konig, J., 508
Konigsberg, I. R., 576, 577, 580, 581
Koningsberger, V. V., 384
Konisky, J., 272, 273
Konitz, W., 35, 39
Kono, Y., 480
Konzal, C. F., 342
Kooistra, G., 208
Kopacka, B., 451
Koppe, F., 288
Koprowski, H., 564, 576, 591, 642, 651
Korchak, H. M., 241
Korn, E. D., 43, 434, 437
Kornberg, A., 348, 372, 375, 376, 377
Kornberg, H. A., 247
Kornberg, H. L., 57, 139, 244, 247, 250, 311, 312
Kornberg, S. R., 348
Kornblum, J., 195
Korostovtsev, S. B., 649
Korteweg, R., 556
Kos, E., 356
Koser, S. A., 239
Kosmachev, A. E., 87, 94
Kostakev, A., 508
Kostakew, A., 508
Kostrzewski, J., 510
Kotelko, K., 451
Kotter, L., 508
Kovalenko, V. Ya., 659
Kovaleva, L. A., 93
Kowa, Y., 239
Koyama, G., 94
Koyama, Y., 78
Krakow, G., 250
Krakow, J. S., 370, 371, 373
Králík, O., 84
Krampitz, L. O., 244
Kran, G., 300
Krassikova, N. V., 75
Krassilnikov, N. A., 72, 77, 79, 80, 83, 87, 95
Krebs, H. A., 139, 244

Jacobs, J., 509
Jacobs, M. B., 106
Jacobs, N. J., 427, 500, 508
Jacobsen, B., 214
Jacobson, B., 246
Jacobson, G., 656
Jaeger, R. F., 652
Jaenicke, L., 138
Jagger, I. C., 215
Jahn, T. L., 31, 32, 33, 36, 42
Jahncke, A., 457
Jahnke, H. K., 90
Jakobson, R., 144
James, E., 508
James, S., 154
James, T. W., 41
Jamieson, J. D., 425
Jampolskaja, W. A., 511, 512
Jankov, G., 509
Jann, B., 447, 448
Jann, K., 443, 445, 446, 448, 449, 451
Jannasch, H. W., 49-70; 64, 65
Jansen, C. R., 166
Jansz, H. S., 339
Jaouni, T., 388, 401, 405
Jaouni, T. M., 372
Jarret, O., 575
Jayaraman, K., 59
Jencks, W. P., 395
Jenkin, C. R., 274, 455, 457, 458, 460, 461
Jenkins, D. W., 646, 651, 653
Jenkins, P. A., 87
Jenkins, V. K., 559
Jenkins, W. R., 209, 213
Jensen, A., 294, 304, 305
Jensen, E. M., 557, 558
Jensen, F. C., 564, 576
Jensen, H. J., 208
Jensen, K. A., 457
Jensen, M. M., 654
Jensen, S. L., 226
Jensen, T. E., 302
Jenski, J. V., 641
Jepsen, A., 502, 504
Jerlov, N. G., 289
Jerne, N. K., 186, 551
Jervis, G. A., 642
Jha, A., 206, 208, 210, 211
Jobse, A. S., 508
Johanovsky, J., 196
John Brooks, St. R., 506
Johne, H., 513
Johns, A. T., 125
Johns, H. E., 354
Johns, L. W., Jr., 552, 554, 555
Johnson, A. G., 451
Johnson, A. W., 131, 132
Johnson, E. B., 342
Johnson, L. M., 444
Johnson, R. A., 378
Johnston, H. H., 513
Joklik, W. K., 386, 587
Jolit, M., 57
Jondorf, W. R., 586, 587
Joneja, M. G., 559
Jones, D. S., 372, 388, 401, 405
Jones, G. E., 109
Jones, J. P., Jr., 484
Jones, L. A., 80
Jones, M. T., 327
Jones, O. W., Jr., 388, 407
Jones, R. O., 592
Jones, S., 512
Jones, T. C., 487
Jones, V. E., 163, 174
Jordan, E., 161
Jordon, E. O., 111
Jorgensen, G., 377
Joske, R. A., 488
Josse, J., 348, 376
Jost, M., 302
Joubert, L., 510
Joyner, A., 268, 627, 628
Juday, C., 298
Julien, J., 374
Jungwirth, C., 250
Juniper, B., 35, 37
Jurkowitz, L., 369
Jurkowitz, M. S., 369
Jutting, G., 241
Juva, K., 406

K

Kabat, S., 386, 387
Kabuto, M., 511
Kadlecova, V., 590
Kadoya, M., 376
Kadull, P. J., 652, 656
Kaesburg, P., 343
Kageyama, M., 260, 276, 277
Kahan, B., 194
Kahan, F. M., 374, 388
Kahn, P. L., 263, 264, 265, 266
Kahn, R. H., 577, 578
Kahn, R. P., 207, 209
Kahn, V., 40
Kaiser, A. D., 376, 608, 619, 625
Kaiser, P., 288, 291
Kaji, A., 310, 386, 391, 408
Kaji, H., 391, 408
Kajima, M., 552
Kalakoutskii, L. V., 79, 80, 86, 95
Kaliaeva, E. S., 55
Kalintseva, L. I., 506
Kalli, S., 508
Kallio, R. E., 226
Kalmykova, G. Ya., 94
Kalocsky, M., 552, 555
Kamel, H. M., 508
Kamen, M. D., 18, 22, 24, 286, 287, 311, 314, 315, 345
Kameneva, S. V., 55
Kameyama, T., 352
Kamiya, T., 272
Kampelmacher, E. H., 507, 508, 509, 510, 512, 515, 517, 518
Kanai, K., 196
Kandler, O., 425, 426
Kanitz, C. L., 473
Kanner, L. C., 369, 373
Kantor, G. J., 358
Kaplan, A. S., 377
Kaplan, H. S., 326, 333, 355, 360, 534, 535, 538, 539, 540, 541, 556, 560
Kaplan, I. R., 309
Kaplan, M., 661, 662, 664, 667
Kaplan, M. M., 651
Kaplan, R. W., 144
Kaplan, S., 405, 406
Karlsbad, G., 182, 185, 188
Karlson, K. A., 511, 513
Karlsson, K., 509
Karlstrom, O., 67
Karmen, A., 235
Karnofsky, M. J., 159, 169
Karol, W., 557, 558
Karon, M., 545
Karstad, L., 479, 489, 490
Karush, F., 192, 193
Kasai, N., 446
Kass, E. H., 647
Kass, L. R., 232
Kassanis, B., 217, 218, 219, 220
Katagiri, M., 94
Kataja, E., 408
Kates, M., 112, 226, 431
Kato, T., 133
Kato, Y., 265
Katsuya, N., 62
Kaudewitz, F., 51
Kauffmann, F., 445, 447, 448, 451, 452, 454, 497
Kaufman, H., 52, 56
Kaufmann, A. F., 651
Kawade, Y., 388
Kawakami, M., 438, 453, 455, 456, 459
Kawamura, N., 559
Kawata, T., 420
Kay, D., 260
Kayajanian, G., 622
Kaye, A. M., 369, 370

Kaziro, Y., 240, 246, 247, 277
Keane, M., 42, 43
Kearney, C. L., 57, 115
Kearns-Preston, U., 552
Keck, K., 348, 349, 351
Keech, M. K., 576, 577, 578
Keefer, G. V., 650
Kegler, H., 208
Keighley, G., 383
Keir, H. M., 375
Kellenberger, E., 260, 267, 421, 425, 426
Kellenberger, G., 260, 267, 616
Keller, E. B., 383, 384, 394, 395
Keller, H. J., 246, 247
Kellerman, G. M., 246, 247
Kellermeyer, R. W., 246
Keller-Schierlein, W., 95, 96
Kelly, H., 311
Kelly, J. W., 506
Kelser, R. A., 658
Kemp, S. D., 653
Kempf, J., 184
Kempner, E. S., 103
Kende, H. J., 305
Kennedy, E. P., 434, 437, 438
Kennedy, J. C., 186, 187
Kennedy, J. W., 345
Kennedy, R. C., 470, 471, 472, 489, 490
Kent, R., 336, 339
Kenyon, A. J., 478, 479
Kepes, A., 113
Kern, M., 407
Kerr, P. C., 43
Kerwar, S. S., 62
Kessel, D. H., 56
Kessler, D. P., 57, 60
Kethley, T. W., 650
Keynan, A., 102, 387, 388
Khera, S. S., 507, 508, 509
Khesin, K. B., 373
Khokhlov, L. I., 649
Khoklova, Yu. M., 94
Khorana, H. G., 370, 372, 376, 382, 388, 401, 405
Kida, S., 62, 388, 398, 401, 405
Kieswalter, J., 509
Kihara, H. K., 407
Kiho, Y., 388, 405, 407, 409
Kikuchi, G., 250
Kikuchi, Y., 577, 579, 581
Kilbourne, E. D., 651
Kilham, L., 476, 487
Kil Un Uang, 512
Kimble, K. A., 215, 216
Kimura, S., 93
King, H. K., 433
Kirillova, N. F. A., 80
Kiritani, K., 102
Kirk, J. T. O., 35, 37, 43, 369
Kirkwood, S., 43
Kirschbaum, A., 531
Kiseleva, N. P., 371
Kitahara, K., 431, 432
Kitchen, S. F., 642
Kits Van Waveren, E., 556
Kjeldgaard, N. O., 114, 116
Kjellander, J., 510, 511
Klebahn, H., 302
Klebs, G., 32, 33, 37
Klein, E., 543, 545, 546, 547, 549, 550, 551
Klein, G., 543, 545, 546, 547, 549, 550, 551
Klein, H., 511
Klein, H. P., 239
Klein, J. O., 91
Kleinschmidt, A. K., 242, 243, 244
Kleinsmith, L. J., 579
Klemenc, N., 507, 512
Klemme, J., 294, 310, 311
Klieneberger-Nobel, E., 73
Kline, R. W., 503
Klineberg, J. R., 591
Kluyver, A. J., 10, 11, 13, 23, 26, 50, 123, 126, 128
Knappe, J., 241
Knaysi, G., 102
Kneffel, P., 511, 512
Kneser, H., 51
Knight, M., 245
Knight, V., 647, 650
Knopf, P. M., 385, 396, 397, 404
Knorr, K., 664
Knox, K. W., 446
Knox, R., 114, 115
Knox, W. E., 585
Kobayashi, J., 509, 511
Kobayashi, K., 480
Kobayashi, R., 456
Kobayashi, Z., 457
Koch, A. L., 113
Kochan, I., 195
Koch-Weser, D., 246
Kocun, F. J., 433, 438
Kodani, K., 577, 578
Kodani, M., 577, 578
Kodicek, E., 431
Koffler, H., 104, 105, 148
Koga, S., 64, 65
Kögl, F., 239
Kohiyama, M., 116, 267, 268
Köhler, K., 386
Köhnlein, W., 329, 333
Koike, M., 420
Kolakofsky, D., 401, 402, 403
Kolb, J. J., 431, 432
Kolber, A. R., 434, 437
Koldovsky, P., 545, 550
Kole, A. P., 214
Kolin, A., 196
Koller, P. C., 559, 560
Kolmer, W., 153
Kolotilova, L. V., 506
Kölsch, E., 187
Kon, W. A., 513
Kondo, Y., 67
Kondratieva, E. N., 286, 292, 294, 297, 305, 307, 309, 312, 314, 315
Konev, Iu. E., 90
Koniev, Iu. E., 81
Konig, J., 508
Konigsberg, I. R., 576, 577, 580, 581
Koningsberger, V. V., 384
Konisky, J., 272, 273
Konitz, W., 35, 39
Kono, Y., 430
Konzal, C. F., 342
Kooistra, G., 208
Kopacka, B., 451
Koppe, F., 288
Koprowski, H., 564, 576, 591, 642, 651
Korchak, H. M., 241
Korn, E. D., 43, 434, 437
Kornberg, A., 348, 372, 375, 376, 377
Kornberg, H. A., 247
Kornberg, H. L., 57, 139, 244, 247, 250, 311, 312
Kornberg, S. R., 348
Kornblum, J., 195
Korostovtsev, S. B., 649
Korteweg, R., 556
Kos, E., 356
Koser, S. A., 239
Kosmachev, A. E., 87, 94
Kostakev, A., 508
Kostakew, A., 508
Kostrzewski, J., 510
Kotelko, K., 451
Kotter, L., 508
Kovalenko, V. Ya., 659
Kovaleva, L. A., 93
Kowa, Y., 239
Koyama, G., 94
Koyama, Y., 78
Krakow, G., 250
Krakow, J. S., 370, 371, 373
Králík, O., 84
Krampitz, L. O., 244
Kran, G., 300
Krassikova, N. V., 75
Krassilnikov, N. A., 72, 77, 79, 80, 83, 87, 95
Krebs, H. A., 139, 244

Kreger, D. R., 43
Kressmann, H., 512, 513
Krichenbauer, H., 41
Krieg, D. R., 348, 350
Krinsky, N. I., 36, 39, 43, 145, 146
Krischke, W., 533, 534
Krishnapillai, V., 453
Kriss, A. E., 108
Kristiansen, P., 508
Kroger, H., 369, 370
Kröger, H., 351
Kroll, E. T., 79
Krone, W., 385
Krooth, R. S., 574, 575, 589, 591
Krueger, A. P., 641
Krug, R., 390, 391, 393
Krug, R. M., 369
Krüger, L., 447, 448
Kruschew, B., 512
Kruse, P. F., Jr., 594
Kubinski, H., 371
Kubitschek, H. E., 147
Kućan, Z., 353, 356
Kudo, R. R., 31
Kudrina, E. S., 84
Kuehne, R. W., 649, 652
Kuempel, P. L., 377
Kuff, E. L., 437, 438
Kuhlmann, W., 508
Kuhn, N. J., 233
Kulasegaram, P., 508
Kunc, F., 64
Kundig, W., 437
Kuneva, Z., 510, 511
Kung, H., 389
Kung, W., 513
Kunii, A., 552
Kunisawa, R., 145, 300, 301, 304, 312, 313, 419, 426, 428
Kunstyr, I., 508
Kupchyk, L., 195
Kupelwieser, E. B., 574, 575, 591
Kuratomi, K., 250
Kurita, Y., 559
Kurland, C. G., 384, 386, 387, 388, 391
Kurnosova, N. A., 511
Kuroda, S., 78
Kuroda, Y., 584
Kurstomi, K., 250
Kushner, D. J., 102
Kusnetsow, S. I., 288, 290
Kusnetz, J., 652
Küster, E., 80, 84, 86, 88
Kusumose, E., 239
Kusunose, M., 226, 239
Kutzner, H. J., 84
Kwan, B. C. K., 419, 433

L

Lacassagne, A., 343
Lacey, B. W., 111
Lacey, J., 86, 87
Lacey, M. E., 86, 87
Lachance, J. P., 239
Lackey, J. B., 35
Lagerkvist, U., 388
Lagerlöf, B., 538, 556
Lagunoff, D., 584
Lahelle, O., 555
Lahiri, M. N., 511
Laipis, P., 339
Laird, C., 355, 358
LaManche, P. H., 188
Lamanna, C., 651, 665
Lamb, B. C., 102
Lambert, L., 408, 620, 628
Lamfrom, H., 383, 395, 397, 404
Lamoureux, V. C., 659
Lampen, J. O., 74, 429
Lanahan, T. B., 641, 655
Land, D. E., 309
Landahl, H. D., 647
Landman, M., 36
Landman, O. E., 103, 377, 420, 426, 429, 438
Landy, M., 186, 187, 200, 451, 454, 457
Lane, M. D., 241, 242, 243, 244
Lane, W. T., 563, 564, 565
Lanéelle, M. A., 79
Lanfrom, H., 116
Langdon, R. G., 239, 242, 434, 437
Lange, C. F., 431
Langer, E., 641, 642, 643, 644, 645, 663, 665, 667
Langeron, M., 72
Langmuir, A. D., 654, 661
Lanka, E., 405
Lardy, H. A., 239, 250
La Rivière, J. W. M., 7, 64, 309
Lark, C., 53, 377, 378
Lark, K. G., 53, 377, 378, 632
Larkin, J. M., 109
Larrabee, A. R., 228, 233, 234, 236
Larsen, A., 239
Larsen, H., 145, 246, 292, 297, 298, 304, 311, 313, 317
Larson, B. L., 584
Larson, R. H., 208
Lascelles, J., 274, 296, 303, 310, 311, 312, 313, 314
Laser, H., 359
Lasfargues, J. C., 543, 557, 558
Lash, J. W., 577, 578, 583
Lasneret, J., 536, 538
Lasnitzki, I., 592
Lassen, W. H., 647
Last, J. A., 403
Latarjet, R., 334, 335, 336, 343, 349, 361, 534
Lategan, P. M., 499
Latham, H., 386
Lauritis, J. A., 296, 300
Lauterborn, R., 288, 297, 298, 299, 302, 317
Lavalle, R., 266, 602
Laviolette, F. A., 208, 209, 211, 212
Lavrova, M. F., 93
Law, L. W., 169, 531, 532, 533, 534, 552, 560
Lawn, A. M., 265, 269, 603, 630, 631
Lawrence, H. S., 191
Lawrence, M., 373
Lawrence, N. L., 109
Lazar, G. K., 581, 594
Lazareva, E. S., 649
Lazurkin, J., 328
Lazzarini, R. A., 43
Lea, D. E., 326, 341, 342, 343
Leadbetter, E. R., 294, 311
Leader, R. W., 467, 477, 478, 479, 480, 487, 489, 490
Leahy, J., 385, 394, 405
Leak, P. J., 488
Leatherwood, J., 446
Leavitt, R., 62
Lebidinsky, Y. A., 649
Lebowitz, J., 339
Leboy, P. S., 387
LeBreton, E., 226
Lechevalier, H. A., 71-100; 71, 74, 76, 77, 79, 81, 82, 84, 85, 86, 87, 88, 89, 90, 92, 93, 96
Lechevalier, M. P., 71-100; 76, 77, 81, 82, 84, 85, 86, 87, 88, 89, 95
Lechtman, M. D., 315
Leclerc, J. C., 552
LeComte, J. R., 311
Leder, P., 370, 372, 388, 391, 392, 393, 399, 400, 401, 402, 405
Lederberg, E. M., 603, 604, 613, 620
Lederberg, J., 52, 378, 407, 429, 496, 603, 604, 613, 620, 665, 666
Lederberg, S., 407
Lee, H. H., 278
Lee, K., 477
Lee, N., 59
Leedale, G. F., 31-48; 31, 33, 34, 35, 36, 37, 38, 39, 40, 41, 43, 44
Lee-Huang, S., 376
Leene, W., 426, 427, 428, 438

Leerhøj, M., 662, 667
Leff, J., 43
Lefort, M., 35, 36, 39
Legault, L., 371
Lehman, I. R., 372, 375, 376
Lehmann, W., 208, 512
Lehner, C., 509
Lehner, D. F., 577, 579, 581
Lehninger, A. L., 433
Leif, W. R., 654
Leifson, E., 453
Leininger, H. V., 651, 659
Leive, L., 423, 437, 438
Lemarchal, P., 226
Lemmermann, E., 302
LeMinor, L., 445, 450, 455
Lenard, J., 436
Lengerova, A., 158, 159
Lengyel, P., 388, 402, 408
Lenk, V., 506, 510
Lennarz, W. J., 227, 228, 232, 433
Lennette, E. H., 651, 653
Lense, F. T., 653
Leonard, F. A., 647, 654, 655
Leonard, M. J., 574
Lerche, M., 509, 513
Lerman, L. S., 147, 149
Lerner, A. M., 486
Lerner, E. M., II, 194, 195, 198
Lerner, R. A., 477, 479, 481
Lerry, G. P., 343
Leskowitz, S., 157-80; 163, 164, 174, 193
Lesney, P. E., 577, 579
Less, L. A., 577, 579, 581
Lessel, E. F., 71
Lett, J. T., 331, 337, 338, 339, 355, 359
Leuchars, E., 559
Leutgeb, W., 421, 436, 445
Levan, A., 559
Levey, P. H., 197
Levey, R. H., 169, 197, 198
Levey, S., 483, 491
Levillain, R., 484, 486
Levi-Montaleini, R., 592
Levin, J., 374
Levin, J. G., 374
Levin, M. Ye., 655
Levine, A. S., 552
Levine, B. B., 192
Levine, E. M., 581, 593, 594
Levine, H., 192
Levine, H. B., 651
Levine, J., 388
Levine, J. H., 43
Levine, M., 609, 618
Levine, N. D., 31
Levine, S. J., 587
Levinthal, C., 387, 388
Levintow, L., 573, 575
Levinson, S. O., 642
Levisohn, R., 272, 276
Levy, H. B., 555
Levy, J. P., 536, 538, 552, 558
Levy, M., 574, 580
Lew, F. J., 501
Lewandowska, E., 509, 510
Lewis, G. M., 72
Lewis, G. N., 16
Lewis, K. H., 501, 511, 512
Lewis, M. J., 259, 513
Lewis, M. R., 190
Lewis, S., 42
Ley, H. L., Jr., 642, 657
Leyh-Bouille, M., 430
Lezius, A., 126, 127, 132, 133
Liaaen Jensen, S., 288, 289, 293, 298, 306, 307, 308, 309, 313
Liacopoulos, P., 166
Liau, M. C., 375
Licciardello, G., 609
Licciardello, J. J., 499
Lichtenstein, J., 385
Lichtenstein, L. M., 190
Lichtfield, J. H., 509
Liden, S., 195
Lieberman, M., 534, 538, 541
Light, R. J., 227, 228, 232
Lilly, F., 547, 560, 561, 562
Lim, P. G., 61
Lin, E. C. C., 61
Lin, F. H., 555
Lindahl, T., 402
Lindeberg, G., 102
Lindegren, C. C., 74
Lindquist, J. H., 348
Lindstrand, K., 132, 133
Lindt, W., 104
Lineweaver, H., 499, 501
Lingelsheim, V., 445, 453
Lingens, F., 54
Lingrel, J. B., 404
Linke, H., 508
Linker, A. J., 577, 578
Linnane, A. W., 419, 427
Linscott, W. D., 165, 173
Linsert, H., 508
Linz, R., 510
Lion, M. B., 654
Lipmann, F., 127, 384, 385, 389, 393, 394, 395, 396, 403, 406
Lippert, K. D., 292, 311, 314, 315, 317
Lippitz, G., 504
Lipton, A., 608
Liška, B., 52, 56
Lister, R. M., 207, 208, 209, 211
Lister, U. M., 38
Liston, J., 109
Little, C. C., 560
Littlefield, J. W., 343, 383, 590
Liu, Y. T., 53
Ljungdahl, L., 126, 132, 133, 138
Lobko, M. A., 511, 512
Löcci, R., 80, 85, 86, 88, 91
Lochmauller, H., 241
Lockingen, L. S., 342
Lode, A., 102
Lodenkämper, K., 514, 515
Loeb, T., 603, 630
Loeblich, A. R., 31
Loewi, G., 162, 164, 191, 193
Loh, P., 369
Lohrmann, R., 388, 401, 405
Loit, A., 504
Lomakina, N. N., 93
Lomov, G. L., 508
Long, S. K., 102
Loofbourow, J. R., 147
Loomis, W. F., 60
Lorch, E., 241
Lorenz, E., 343
Lorkiewicz, Z., 333, 355
Losada, M., 311, 312
Lotfi, Z. S., 508
Lotfield, R., 384
Lotroth, G., 329, 330
Louria, D. B., 88
Loutit, J. F., 574
Loutit, J. S., 53
Lovelace, E., 189
Lovell, R., 506
Low, B., 621
Lowell, F. C., 483
Lowenstein, J. M., 244
Löwenstein, P., 111
Lowery, T. A., 486, 490, 491
Lowery, W. D., 512
Lowndes, A. G., 36
Lowney, E. D., 163
Lowney, L. I., 114
Lownsbery, B. F., 208, 210, 211, 212
Lowy, J., 74
Lowy, P. H., 383
Lu, P., 149
Lubin, M., 52, 54, 56, 385, 391, 586, 587
Luborsky, S. W., 553
Lucas-Lenard, J., 395

Lüderitz, O., 417, 418, 443, 445, 446, 447, 448, 449, 450, 451, 452, 454
Luedemann, G. M., 81, 91, 92
Luell, S., 560
Lukens, L., 406
Lukina, K. F., 508
Lukins, H. B., 419, 433
Lukoyanova, M. A., 425, 426, 431, 433, 434
Lumley, G. F., 647
Lummis, W. L., 90
Lumpkin, W. M., 577, 578
Lundgren, D. G., 53, 429, 438
Luria, S. E., 61, 258, 269, 271, 273, 274, 275, 345, 373, 374, 388, 616, 625
Lüthgen, W., 508
Lutterbach, M., 512
Luzatto, L., 396
Luzzati, D., 267
Lwoff, A., 257, 264, 603, 652
Lyaskovkaya, M. N., 506
Lyman, H., 42
Lynch, C. J., 531
Lynen, F., 126, 127, 226, 228, 230, 231, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 246, 247, 251

M

Maaløe, O., 114, 375, 453, 667
Maas, R., 604, 630
Maas, W., 617
Maas, W. K., 56, 62, 115, 604, 630
Maat, D. Z., 209
McAllister, H., 392, 394
Maccacaro, C. A., 603
McCaffery, T. D., 43
McCalla, D. R., 42, 43
McCann, D. S., 576, 577, 578
McCapra, J., 111
McCarl, R., 578, 580, 584
McCarthy, B. J., 374, 385, 386, 388
McCarthy, J. M., 444
McCarthy, J. S., 160, 161, 162, 163, 170, 191
McCloy, E. W., 348
McCollough, W. B., 642
McCollum, W. H., 486
McConahey, P. G., 173
McConkey, E. H., 386, 387
McConnell, H. J., 651, 659
McCoy, E., 83
McCrumb, F. R., Jr., 642, 643, 647, 649, 651, 652
McCullagh, P. J., 176
McCulloch, E. A., 186, 187, 575, 584, 585
McCullough, N. B., 513
McCullough, P. J., 183
McCurley, E. H., 54
McDade, J. J., 641, 655
McDaniel, E. G., 228, 236
McDevitt, H. O., 184, 185
McDonald, W., 172
McDonald, W. C., 104
MacDowell, E. C., 531, 560
McDurmont, C. I., 86, 87
Macek, M., 590
McElmury, R. C., 667
McElroy, W. D., 143, 310
McElvain, N., 581
McEndy, D. P., 538
McFall, E., 60, 586, 621
McFarland, V. W., 552, 553
McFarland, W., 186
MacFarlane, I., 218, 219, 220
Macfarlane, M. G., 431
McFarren, A. C., 262, 263, 265, 266
McGavran, M. H., 647
MacGillvray, M., 551
McGinniss, M. H., 482, 483
McGrath, R. A., 145, 339, 356, 359
McGregor, D. D., 159, 166, 169, 181
McGregor, J. L., 198
McGuire, J. M., 211, 212
Mach, F., 278
MacHattie, L. A., 608
Macieira-Coelho, A., 575
McIntosh, A. H., 500
MacIver, A. M., 84
Mackaness, G. B., 196, 455, 456, 457, 458, 461
Mackay, J. M. K., 473, 489
McKendrick, G. D. W., 510, 512
McKenna, E. J., 226
MacKenzie, G. M., 453
McKinney, H. H., 206, 215
McKinney, R. W., 653
McLaren, A. D., 144
McLean, A. L., 107
MacLeod, C. M., 577, 585, 586, 587, 588
MacLeod, D. R. E., 457
MacLeod, N. H., 641, 655
MacLeod, R. A., 102
Macloskey, E. R., 427
McMaster, P. D., 457
Macmillan, J. D., 146
McMurrough, I., 112
McNamara, P., 433, 436
McNelly-Ingle, C. A., 102
MacPherson, I., 574, 575, 576
McQuillen, K., 383, 385, 404, 431, 432, 433
McTaylor, A. M., 502
Macura, J., 64
McWhorter, A. C., 504
Madden, J. W., 577, 583
Maddy, A. H., 436
Madison, J. T., 353, 389
Maduros, B. P., 534
Maeda, A., 259, 260, 269, 270, 271, 272, 273, 275
Maeda, K., 94
Maehr, H., 91, 92
Magasanik, B., 60
Mage, R. G., 197
Mager, J., 385
Maggenti, A. R., 208
Magis, J. M., 649
Magwood, S. E., 516, 518
Maheshwari, N., 369, 374
Mahler, H. R., 348, 349, 369
Maiorova, V. A., 83
Maitland, H. B., 111
Maitra, U., 250, 370, 373, 374
Maizel, J. V., Jr., 407, 409
Majerus, P. W., 227, 228, 229, 230, 231, 233, 234, 236
Mäkëla, O., 172
Mäkelä, P. H., 448, 449, 450
Makino, S., 576
Makinodan, T., 181
Maksimova, I. V., 289
Malamy, M., 423, 438
Malanowska, T., 509
Malcolm, B. R., 436
Málek, I., 64, 662, 667
Malinin, G. A., 655
Mallette, J. M., 593
Mallick, B. B., 508
Malligo, J. E., 650
Mallman, W. L., 499
Malmgren, R. A., 545
Malofeva, I. V., 307
Maltman, J. R., 654
Manachini, P. L., 81
Managarow, D. P., 509
Manaker, R. A., 189, 552, 556, 557, 558, 577, 579
Mandel, M., 43, 319, 374, 388
Mandel, P., 369
Mandelstam, J., 56, 60
Mandrazhitskiy, M. M., 655
Mangalo, R., 54
Mangiarotti, G., 385, 386
Mangiatini, M. T., 105
Maniloff, J., 419
Mann, P. G., 510, 512

Mann, P. H., 508
Manning, G. B., 105
Manolov, K., 510, 511
Manov, T., 511
Mansberg, H. P., 652
Mantei, N., 278
Manten, A., 295, 315
Manton, I., 36
Mantsavinos, R., 375
Marajai, E., 277, 278
Maramorosch, K., 212
Marazza, V., 502
Marchesi, V. T., 419, 433
Marchis-Mouren, G., 403, 406
Marcker, K. A., 388, 399, 400, 401, 402, 403
Marcot-Queiroz, J., 386
Marcovich, H., 667
Marcus, P. I., 574, 587, 593
Marcus, S., 454
Marcuse, D., 511
Mardashev, S. R., 369
Mare, C. J., 481, 482
Maréchal, L. R., 44
Maresch, N., 297
Maresz, J., 259, 266
Margard, W. L., 509
Margerie, H., 260, 267
Margolin, P., 62, 250
Margolis, G., 476, 487
Margulies, A. D., 265, 616
Mariat, F., 72, 86, 88
Marinetti, G. V., 432
Markert, I. L., 148
Markham, R., 342
Markkula, H., 645
Markman, R., 436
Markowitz, A. S., 431
Marks, P. A., 385, 388, 396
Marmur, J., 105, 260, 266, 268, 278, 319, 374, 388, 444, 602
Marquez, J., 91
Marquisee, M., 353, 389
Marquisee, M. J., 374
Marr, A. G., 102, 112, 114, 115, 300
Marrè, E., 109
Marriott, M. E., 485
Marsh, C., 105
Marshall, R., 408
Martens, J., 512
Marthedal, H. E., 508, 509
Martin, D. B., 228, 235, 236, 239, 242, 243
Martin, D. S., 72, 88
Martin, G. M., 574, 575
Martin, G. R., 590
Martin, H. H., 421, 436, 445
Martin, R. E., 385, 389
Martin, R. G., 388, 398, 401, 405
Maruo, B., 433, 437, 438
Marushige, K., 385
Marx, R., 507, 508
Mason, D. J., 90
Masoro, E. J., 241
Massa, D. M. G., 82
Massie, F. S., 186
Mast, S. O., 37
Masters, M., 352, 629
Masuda, T., 183
Masurovsky, E. B., 552
Matalon, R., 577, 578, 589
Mateev, M., 508, 512
Mateles, R. I., 61, 64
Mathemeier, P. F., 105
Mather, N. O., 166
Matheson, A. J., 346
Mathews, C. K., 130
Mathews, J. A., 651, 659
Mathews, J. D., 468, 469
Mathews, M. M., 145, 146, 149, 150, 152
Matile, P., 302
Matney, T. S., 103, 104, 614
Matoltsy, A. G., 589
Maton, G. E., 511, 512
Matsuhashi, G., 94
Matsuhashi, M., 241, 242, 243, 433
Matsuhashi, S., 241, 242, 243
Matsumoto, T., 509, 511
Matsumura, S., 232, 238
Matsushiro, A., 62, 388, 398, 401, 405, 620, 622
Matsuyama, M., 541
Matthaei, H., 391
Matthaei, J. H., 388
Matthes, K. J., 242
Matthews, R. E. F., 396
Matwejewa, W. N., 511, 512
Matyuk, P. D., 649
Matzke, W., 509
Mauerr, P. H., 158
Mawson, K. N., 511, 512
Maximova, T. S., 84
Maxwell, W. A., 146
May, K. R., 650
Mayer, H., 509, 512
Mayer, R. M., 446, 448
Maynell, E., 263, 265, 266
Mayr-Harting, A., 269
Mayyasi, S. A., 543
Maze, R., 261
Mazumder, R., 246
Mazur, P., 102
Mead, J. F., 580
Mechsner, K., 297, 298, 305
Medawar, P. B., 158, 195, 197, 198
Meeker, G. L., 41
Meeser, M. J. N., 509
Meeuse, B. J. D., 35, 36, 37, 38, 39, 43, 44
Megraw, R. E., 245, 248, 250
Mehrotra, B. D., 370
Mekhtieva, V. L., 309
Mellanby, E., 581
Mellanby, J., 250
Melletz, E. W., 186
Mellin, D., 300, 301
Mellon, A. D., 42
Mellors, R. C., 477, 481, 488
Melville, D. B., 239, 240
Mémery, G., 79
Mendlowski, B., 484, 485, 489
Menninger, J. R., 405, 406
Menningmann, H. D., 260
Mentzing, L. O., 511, 513
Mercer, E. I., 43
Merchant, B., 186, 187
Merchant, D. J., 577, 578
Mercier, S., 652
Merck, G. W., 641, 665
Mergenhagen, S. E., 422, 437
Merigan, T. C., 587
Merle, A., 511
Merrill, S. H., 353, 388, 389
Mervin, R. M., 575, 591
Mervyn, L., 131
Meseck, E., 91
Meselson, M., 272, 384, 387, 388, 408, 602, 614, 617, 625, 666, 667
Mesrobeanu, L., 445, 453
Messare, J., 543
Messer, W., 55
Messerli, W., 509
Messin, S., 43
Metcalf, D., 534, 536, 539, 540, 541, 556, 584
Metchnikoff, E., 197
Metz, H., 53
Metzner, P., 304
Meuszyński, S., 509, 510
Meyer, A. W., 239
Meyer, F., 112
Meyer, K., 577, 578
Meyer, K. F., 484, 651, 652
Meyer, R., 509
Meyers, D. K., 336
Meyers, L. S., Jr., 330
Meyers, P., 533, 534, 543, 548, 549, 552, 555
Meylan, C., 574
Meynell, E., 605, 630, 631
Meynell, G. G., 265, 269
Michael, J. G., 454
Michailowa, R., 508
Michelson, M., 371
Michener, H. D., 102, 107, 108

Micozzi, G., 506
Middlebrook, G., 649
Miedema, E., 594
Miescher, P. A., 162, 164
Mignot, J.-P., 35, 36, 37, 38, 39, 41
Mihm, J. M., 75, 86, 88
Mikesina, N. Ja., 511, 512
Mikitin, V. M., 649
Milbrath, J. A., 206
Miletic, B., 356
Militzer, W., 105, 436
Miller, A. A., 556, 557
Miller, J., 162, 163
Miller, J. F. A. P., 531, 541
Miller, J. J., III, 184
Miller, R., 396, 397, 398
Miller, R. C., 343, 345, 346
Miller, W. S., 651
Millson, G. C., 470, 471
Milne, M., 459
Milner, K. C., 424
Minbaiev, P., 81
Minev, M., 507
Mink, G. L., 208, 210
Minor, L., 509
Mintz, B., 583
Mirand, E. A., 533, 534, 536, 543, 545, 557
Mirsky, A. E., 383, 403, 406, 577, 578, 581
Misato, T., 94
Mishchenko, V. V., 649
Mishell, R. E., 187
Mitchell, J., 177, 178
Mitchell, P., 431, 432, 433
Mitchell, R. I., 647
Mitchell, T. G., 84
Mitchison, N. A., 160, 161, 168, 169, 170, 171, 172, 175
Mitra, S., 343
Mitsuhashi, S., 453, 455, 456, 459, 460
Mitsui, H., 376
Miura, S., 502
Miyagawa, I., 332
Miyamae, T., 502
Mizuno, D., 272
Mizuno, S., 433, 437, 438
Mizushima, S., 431, 432
Moat, A. G., 54
Moebus, K., 51
Moersig, H. J., 509
Moldave, K., 384, 394, 395
Mole, R. H., 354, 559
Molisch, H., 302
Möller, G., 189, 545, 547
Möller, W., 387
Moloney, J. B., 343, 530, 531, 532, 533, 534, 539, 540, 542, 543, 546, 552, 562, 563
Momose, H., 62, 67
Monaco, A. P., 158, 166, 197
Monaco, L., 153
Mondini, S., 512
Monier, R., 374, 386
Monk, M., 265, 268, 269
Monod, J., 63, 276, 279, 375, 384, 387, 388, 588, 604, 619, 621, 625, 626, 628
Monro, R., 395
Monro, R. E., 392, 394, 395, 403
Monsey, J. B., 499
Montagnier, L., 361, 575
Moody, E. E. M., 265, 266, 605, 617
Moody, M. D., 653
Moohr, J. W., 373
Moon, H. D., 189, 190
Moon, M. W., 370, 372, 376
Moore, A. E., 557
Moore, B. G., 149
Moore, D. W., 75
Moore, F. W., 88
Moore, G. E., 189, 574, 577, 579, 581
Moore, G. R., 507
Moore, H. A., 512
Moore, L. A., 557
Moore, L. D., 433, 438
Moore, P. B., 386, 390
Moore, R. T., 73, 84
Moorhead, J. F., 186
Moorhead, P., 576
Moorhead, P. S., 574, 575, 576, 578
Mora, J. A., 512
Mora, P. T., 552, 553
Morales-Otero, P., 642
Moran, A. B., 509
Moreno, G. D., 183
Morgan, H. R., 454
Morgan, M. N., 147
Morgan, W. T. J., 446, 451
Mori, R., 420
Moriber, L. G., 43
Morikawa, N., 388, 405
Morita, R. Y., 105, 108, 109
Morita, T., 384
Morowitz, H. J., 399, 419, 435
Morozov, V. M., 81
Morris, A. J., 394, 405
Morris, B., 183
Morris, C. C., 577, 578, 581, 582
Morris, J. G., 250
Morrison, R. B., 111
Morse, M., 603, 613, 620
Morse, P. A., 577, 579, 585, 586, 588
Mortada, S., 505
Mortelsmans, J., 510
Morton, J. I., 551
Morton, J. R., 342, 346
Morton, T. W., 642
Moschides, E., 43
Möse, O., 662, 667
Mosely, B. E. B., 359
Moser, H., 64
Moses, L. E., 326
Mosko, M. M., 195
Mossel, D., 509, 513
Mossel, D. A. A., 515, 518
Mottram, J. C., 148
Mountain, W. B., 211
Mouton, D., 445, 455
Mowat, W. P., 208, 210, 212
Moyed, H. S., 61
Moyle, J., 431, 432
Mozingo, R., 239
Mühlethaler, K., 35, 37, 39, 42
Muirden, K. D., 577, 578, 579
Mukai, F., 260
Mukai, F. H., 260
Mulder, E. G., 64
Müller, A., 327, 328, 329, 330, 333, 342, 343, 359
Muller, F. M., 19, 24
Muller, G., 504, 508
Müller, G., 247
Müller, M., 109
Müller, O., 247
Müller-Hill, B., 59
Mulveny, T., 406
Mundry, K. W., 344
Mundt, J. O., 513
Munoz, E., 430
Munro, M. M., 559
Munson, B., 375
Munson, R. J., 102, 357
Munter, E. J., 656
Muramatsu, N., 67
Murant, A. F., 209
Murase, M., 94
Murata, Y., 631
Murawski, A., 91
Muromstev, S. N., 649
Murphy, E. D., 542
Murray, E. G. D., 86
Murray, R. G. E., 419, 420, 421, 425, 426, 427, 431, 436
Murrel, M. C., 504
Murrell, W. G., 102
Muschel, L. H., 454
Mutschin, A., 659
Myers, J. W., 52

N

Nachtigal, D., 165, 173, 174
Nadler, C. F., 559

Nadler, K. D., 294
Nadson, G. A., 298
Nagai, J., 232
Nagai, M., 455
Nagata, T., 377, 632
Nagata, Y., 433, 437, 438
Nagatsu, J., 94
Nagel, C. W., 109
Nagel de Zwaig, R., 261, 263, 265, 266, 274, 275, 279
Nagler, C., 339, 343
Nagy, B., 507, 508
Nagy, E., 259, 261, 277
Naide, Y., 448, 449, 450
Nakada, D., 374, 386, 387
Nakae, T., 103
Nakamoto, J., 405, 406
Nakamoto, T., 369, 370, 372, 373, 401, 402, 403
Nakamura, A., 631
Nakamura, H., 216
Nakamura, K., 536, 602, 608
Nakamura, M., 102, 270, 272, 273
Nakamura, R. M., 647
Nakanishi, H., 509, 511
Nakano, K., 217
Nakano, M., 459
Nakaya, R., 631
Nakayama, T. O. M., 306
Nakazawa, K., 83
Namestnikova, V. P., 75, 93
Naono, S., 372, 373, 374, 376, 388, 405, 626, 627
Narita, K., 403
Naspitz, C. K., 198
Nathans, D., 385, 391, 394, 395, 405
Naughton, M. A., 405
Neel, R., 509
Neely, W. B., 111
Nehaul, B. B. G., 511
Neidhardt, F. C., 57, 60, 116, 375
Nejceva, E., 510, 511
Nell, M. B., 592
Nelson, B. W., 453, 454
Nelson, D. S., 193
Nelson, J. W., 208
Nenashev, V. P., 649
Nesterov, A. I., 312
Netschey, A., 435, 436
Neu, H. C., 386, 423, 438
Neuhauser, H., 509
Neveu, T., 159, 166
Neville, D. M., 436
Newell, K. W., 504, 508, 512
Newton, S. B., 115
Newton, W. A., 388, 398, 399, 401, 405
Ney, F. G., 647
Ng, H., 58, 102, 109, 114, 115, 499
Ngu, V. A., 189
Nguyen, H. L., 506
Nickerson, J. T. R., 499
Nickerson, W. J., 74
Nicolescu, A., 507, 510
Nicot, C., 430
Niederehe, H., 510, 511, 512
Nielsen, L., 274
Nielsen, N. O., 166
Nierlich, D. P., 586
Nikaido, H., 418, 448, 449, 450
Nikaido, K., 450
Niklowitz, W., 299, 301
Nikolov, V., 509
Nilausen, K., 594
Nirenberg, M. W., 370, 372, 374, 388, 389, 390, 391, 392, 393, 399, 401, 405, 407, 408
Nisalak, A., 578
Nishi, Y., 260
Nishikawa, H., 62
Nishimura, M., 42, 370, 372
Nishimura, S., 388, 401, 405
Nishizuka, Y., 393, 395, 396, 403
Nitowsky, H. M., 585, 586
Niven, C. F., 503, 517
Nixon, H. L., 209, 217
Niyogi, S. K., 370, 615
Nobel, R. E., 246
Nodake, R., 445
Noel-Baker, P., 640, 644, 645
Noguchi, H., 143
Nohara, H., 384
Noll, C. R., 43
Noll, H., 385, 386, 388, 394, 396, 397, 398, 401, 402, 403, 409
Nolof, G., 74
Nomura, M., 257-84; 258, 259, 260, 265, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 384, 387, 388, 408
Nonomura, H., 88
Noorle Jansen, L. M., 515, 518
Nordan, H. C., 359
Nordin, A. A., 186, 551
Nordin, J. H., 43
Norkrans, B., 108, 109
Norman, A., 332, 333, 342, 343, 344, 359
Norman, P. S., 163
Noronha, J. M., 128
Norris, A. T., 232, 238
North, D. T., 342
Norton, J. E., 424
Nose, K., 272
Nossal, G. J. V., 171, 172, 175, 177, 178, 184
Notani, G., 405
Nottingham, P. M., 507, 509
Novelli, G. D., 352, 384
Novick, A., 56, 58, 63, 65, 114, 115, 388, 405
Novogrodsky, A., 369, 370
Novotný, J., 642, 643, 644, 645, 646, 649, 651, 657
Nowotny, A., 446
Nozu, K., 369
Nuesch, J., 96
Numa, S., 241, 242, 243
Nuske, R., 259
Nutini, L. G., 550
Nuttall, G. H. F., 162
Nygaard, A. P., 374, 388
Nylen, M. U., 428
Nyström, K. G., 511, 513

O

Oakberg, E. F., 61
Ochoa, S., 115, 238, 240, 246, 247, 369, 370, 371, 388, 389, 399, 403, 407, 408
O'Connor, T. E., 530, 543, 544, 552, 554, 564, 565
Odaka, T., 551, 561, 562
Oden, E. M., 91, 92
O'Donnell, E. H. J., 41
O'Donovan, G. A., 57, 115
Oels, M., 509
Ofengand, E. J., 384, 388, 399
Ogata, K., 384, 403
Ogata, S., 311, 312
Ognjanov, D., 507
O'Gorman, P., 547
O'Grady, F., 646
Ogur, M., 102
Ogur, S., 102
Ohara, Y., 88
Ohba, Y., 533
Ohno, S., 559
Ohta, N., 444
Ohtaka, Y., 369, 388, 401, 405
Ohtsuka, E., 370, 372, 376, 382, 388, 401, 405
Ohye, D. F., 107
Oikawa, A., 577, 579
Oishi, M., 377
Okabayashi, A., 477
Okada, M., 265
Okada, S., 336, 337, 351
Okada, T., 55
Okami, Y., 74
Okamoto, K., 260, 268, 278

Okamoto, T., 389, 390
Okano, H., 552
Okata, T., 592
Okazaki, T., 376
Okuda, T., 93
Okugawa, Y., 93
Okun, L., 355, 358
Okuyama, M., 250
Old, L. J., 189, 542, 543, 546, 547, 548, 549, 550, 551, 580, 562, 577, 579
Olenik, J. G., 375
Olinici, N., 507, 510
Oliver, T. J., 93
Olson, J. A., 226
Olson, J. C., Jr., 109
Olson, J. M., 294, 304
Olson, M. E., 383
Olsson, R. C., 642
Oltmanns, O., 54
O'Mary, C. C., 478
Omerod, M. G., 331
O'Neill, C., 594
Onikiyenko, B. A., 649
Oort, J., 184, 185
Opara-Kubinska, Z., 371
Oparin, A. I., 431, 433, 436
Ophof, A. J., 509
Oppenheim, S., 536, 538
Oppenheimer, C. H., 103
Ordal, E. J., 49
Oren, R., 647
Ormerod, J., 288, 299
Ormerod, J. G., 310, 311, 312
Ormerod, K. S., 311
Ormerod, M. G., 329, 332, 342, 359
Ornston, L. N., 56, 58
Oroszlan, S., 554
Orr, D. A., 111
Orr, H. C., 545
Ørskov, F., 450
Ørskov, I., 450
Ørskov, J., 80, 457
Ortiz, P. J., 369, 370
Osato, T., 543, 545, 547, 557
Osawa, E., 387
Osawa, N., 459
Osawa, S., 376
Osawa, T., 53
Osborn, M. J., 437, 443, 445, 446, 448, 449
Osgood, E. E., 556
Oshima, S., 195
Oshiro, M., 195
Osler, A. G., 190
Osnitskaya, L. K., 289, 313
Osterrieth, P. M., 356
Ostrovsky, D. N., 425, 426, 431, 433, 434, 436
O'Sullivan, A., 377
Otaka, E., 376, 387
Otis, H. K., 532
Otto, R. H., 93
Ottolenghi, E., 425
Oudin, J., 451
Oura, H., 386, 388, 396, 397
Overath, P., 236, 246, 247
Overbeck, J., 288, 290, 299
Overend, W. G., 337
Overholt, E. L., 649, 652, 656
Owen, R. D., 172
Oxender, D. L., 434, 437
Ozaki, M., 261, 277
Ozeki, H., 260, 261, 262, 265, 266, 267, 268, 269, 272, 602, 608, 624

P

Pablo, I. S., 500
Pachl, D., 510, 511
Pachl, K., 512
Pachler, P. F., 53
Packer, E. L., 102
Padadimitriou, J. M., 488
Padgett, F., 532, 552
Padgett, G. A., 477, 478, 479, 480, 487, 489, 490
Padilla, G. M., 41
Paffenbarger, R. S., Jr., 512
Pagani, H., 83, 87, 94, 95
Page, L. A., 405
Paigen, K., 602
Pain, R. H., 338
Painter, B. G., 74
Painter, R. B., 650
Palade, G., 385
Palecek, E., 374, 388
Pallansch, M. J., 102
Palleroni, N. J., 109
Palmer, F. E., 49
Palsson, P. A., 467, 468, 473, 474, 474, 481, 482, 489, 490, 491
Panda, S. N., 508
Panijel, J., 484, 486
Panos, C., 431, 432
Pantaleon, J., 508
Papa, S., 555
Pappagianis, D., 651
Pappenheimer, A. M., Jr., 192
Pardee, A. B., 279, 299, 352, 377, 434, 437
Park, J. T., 433
Parker, A., 653
Parker, R. C., 574, 575, 585, 591
Parkins, G., 331
Parks, L. W., 62
Parnas, H., 388, 396
Parrish, G., 359
Parrott, D. M. V., 185, 488
Parry, J., 512
Parsons, D. F., 418, 552
Partridge, S. M., 446, 451
Pasanen, V., 186, 187
Pasternak, G., 545, 546, 549, 550
Pateraki, E., 510, 511
Paterson, P. Y., 163, 170, 171, 194, 642, 657
Pathak, R. C., 508
Patrick, M. H., 148
Patte, J. C., 62, 63
Patten, R. A., 329
Patterson, R., 190
Pattison, I. H., 468, 470, 471, 473, 489, 490, 491
Patton, J. L., 512
Paul, J., 583, 586, 587, 593
Pavlov, N., 507
Pavlovec, A., 386
Peabody, J. W., 72
Peacock, F. C., 213
Peacock, S., 648, 657
Peacocke, A. R., 337, 338
Pearce, L. E., 53
Pearlman, M., 437
Pearlman, R., 403
Pearson, H. E., 552
Peck, H. D., 310
Pecker, M., 43
Pederson, C. S., 109
Pekarek, J., 196
Pekhov, A. P., 604, 612, 614, 615, 623, 628, 630
Pelizza, G., 250
Pellegrino, M., 594
Pelzer, H., 445
Pène, M. G., 386
Penman, S., 386, 388, 396, 398, 405
Pennelli, N., 552
Penswick, J. R., 353, 389
Pepys, J., 87
Peraino, C., 577, 579, 585, 586, 588
Perdue, J. F., 418, 434
Pereira da Silva, L., 620, 628
Perez, F. I., 512
Peries, J., 557, 558
Perk, K., 563
Perkins, H. R., 80
Perkins, W. A., 654
Perlman, E., 446
Pernis, B., 182, 188
Perón, Y., 258, 259, 266, 269, 272, 273
Perpezat, A., 86
Perrin, D., 407
Perry, V. G., 213
Pershan, P. S., 330
Persiel, I., 272
Perutz, M. F., 407
Pestka, S., 370, 372, 388,

390, 391, 393, 408
Peterkofsky, B., 585, 587, 588
Petermann, M. L., 385, 386
Peters, N., 54
Petersen, T. G., 437
Peterson, A. C., 102, 107
Peterson, R. D. A., 199, 550, 551
Peterson, R. N., 113
Peterson, W. D., 498
Petit, J. F., 430
Petrova, E. A., 295
Petrusson, G., 574
Pettengill, O., 577, 578
Petter, H. F. M., 302
Pettijohn, D., 357, 377
Petzold, G., 513
Pfalzgraff, R. L., Jr., 641, 666
Pfennig, N., 285-324; 21, 65, 288, 298, 290, 291, 292, 293, 295, 296, 297, 298, 299, 301, 302, 303, 307, 310, 311, 313, 314, 315, 316, 319
Philipson, L., 575
Phillips, C. R., 649, 650, 653, 655
Phillips, L. L., 479
Phillips, W. D., 327
Piczak, C. V., 556, 557
Piening, C., 512
Pieracci, F., 508
Pierce, G. B., Jr., 577, 579, 584
Pierce, J. G., 240
Pierson, D. J., 63
Pietzsch, O., 508, 509
Piez, K., 574, 580
Pigon, A., 37
Pihl, A., 330, 332, 333
Pike, R. M., 453
Pillemar, L., 457
Pinckers, F., 510
Pine, L., 77, 78, 126
Pine, M. J., 128, 131, 138
Pinkel, D., 545, 557
Pinkerston, W., 187
Pinsky, A., 245
Pinter, I. J., 43
Pinto, M. R., 88
Pious, D. A., 589
Piperno, J. R., 434, 437
Pirie, J. H. H., 107
Pirie, N. W., 217
Pitcher, R. S., 206, 210, 213
Pitelka, D. R., 35, 36, 37, 38
Pitot, H. C., 577, 579, 585, 586, 588
Pitt, R. M., 111
Pittard, J., 610, 612, 614, 621
Pittendrigh, C. S., 37
Pizer, L. I., 586
Platt, J. R., 291
Plazikowski, U., 510, 511
Plotkin, S. A., 652, 656
Plummer, G., 469
Plunkett, O. A., 72
Pluznik, D. H., 550, 580, 584
Pochmann, A., 35, 37, 43, 44
Pogo, A. O., 41, 43
Pohl, R., 37
Pohle, H. D., 511
Poindexter, J. S., 426, 428
Polak, M. F., 513
Politi, G., 510, 511
Pollard, E. C., 326, 342, 343, 344, 345, 346, 348, 352, 353, 356, 359
Pollard, M., 552
Pollock, M. R., 423
Pomeranz, J. R., 163
Pomeroy, A. P., 481, 482, 489
Pomeroy, B. S., 516
Ponder, E., 434
Pontén, J., 575
Ponten, J. A., 576
Pontridge, C. W. H., 240
Pooley, F. E., 512
Popa, G., 506, 507, 508
Popjak, G., 239
Popov, T., 507
Popovici, D., 506, 507, 508
Poppe, H. H., 510
Populanov, V. S., 371
Porporis, J., 508
Porte, A., 184
Porter, D. D., 478, 479
Porter, J. W., 228, 236, 237, 251
Porter, K. R., 38
Porter, R., 197, 199
Posnette, A. F., 206, 208, 211, 213
Post, G. G., 93
Postgate, J. R., 102, 105
Potter, J. S., 560
Potter, M., 187
Potter, R. L., 239
Potter, V. R., 577, 579, 585, 586, 588
Pouwels, P. H., 339
Powell, E. O., 63, 64, 65
Power, J., 59
Powers, E. L., 342
Pratt, D., 349
Pratt, E. A., 375
Prauser, H., 75
Prehn, R. T., 547
Preiss, J., 384
Prelog, V., 95
Preobrajenskaya, T. P., 84
Prescott, D. M., 375
Pressman, D., 189, 577, 579
Prestidge, L. S., 434, 437
Preston, B. N., 337, 338
Preston, N. W., 111
Preuss, A., 369, 370
Prévot, A. R., 74, 77
Price, F. M., 575
Price, J. I., 508
Price, T. H., 512
Price, W. C., 209
Pricer, W. E., Jr., 127
Pridham, T. G., 84
Pridham, T. J., 479, 489, 490
Priest, J. H., 584
Priest, R. E., 581, 584
Prigogina, H. L., 559
Primavesi, K. A., 509, 510, 512
Prince, R. K., 577, 578
Pringsheim, E. G., 20, 32, 33, 34, 35, 36, 37, 38, 39, 42, 43, 44, 297, 302
Pringsheim, O., 42
Prino, G., 145
Prior, J. A., 642, 648, 651
Pritchard, R. H., 265, 266, 378
Přiovora, M., 642, 643, 644, 645, 646, 649, 651, 657
Prockop, D. J., 406, 577, 578
Proctor, D. F., 647
Prokop, J. F., 93
Prokupek, K., 507, 508
Prosnyakova, I. M., 94
Prost, E., 495-528
Provasoli, L., 42, 43
Prozorov, A. A., 373
Pruden, B., 330
Pruzansky, J. J., 190
Pryor, D. E., 216
Ptashne, M., 619, 621, 626, 633
Puck, T. T., 278, 574
Pugh, E. L., 227, 236
Puig, J., 261, 279
Purdie, J. W., 305
Püschner, J., 510

Q

Quadling, C., 111
Quagliariello, E., 555
Quddus Khan, A., 507, 508
Querre, R., 509
Quetsch, M. F., 113

R

Raab, O., 144
Raabe, V. E., 148, 150
Rabi, I., 641

Rabin, R., 225-56; 245, 247, 248, 249, 250
Rabinowitz, J. C., 125, 127, 129
Rabinowitz, M., 369, 370, 372, 383
Rabson, A. S., 189, 577, 579
Rachmeler, M., 352
Rackow, H., 512
Radan, M., 507
Radding, C. M., 268, 372, 376
Radewald, J. D., 209, 212, 213
Radloff, R., 339
Radzhapov, R. A., 94
Rafelson, M. E., 62, 67
Ragatzki, R. A., 504
Rahalkar, P. W., 83, 90
Rahn, O., 110
Rakita, L., 246
Ralph, R. K., 396
Ramakrishnan, T., 62, 614
Ramseier, H., 195
Ramuz, M., 369
Rancourt, M. W., 81, 82, 84
Randall, M., 22
Randt, A., 552
Rao, S. B. V., 508, 512
Rapalski, A. J., 651, 656, 660
Rapaport, F. T., 197
Rapetti, L., 151, 152
Rapp, F., 545
Rappaport, H., 539, 540
Rasch, K., 506, 510
Raška, K., 642, 643, 644, 645, 646, 649, 651, 656, 657, 660, 661, 662, 664, 667
Raskas, H., 387
Raski, D. J., 206, 208, 209, 210, 211, 212, 213
Rasmussen, O. G., 500
Rasmussen, P. G., 508
Ratledge, C., 239
Ratliff, R. L., 370
Rauscher, F. J., 533, 534, 536, 542, 543, 545, 546, 552, 554
Rauscher, F. J., Jr., 189
Rauth, A. M., 330, 340, 342
Ravdin, R. G., 576
Ray, D. S., 43, 377
Ray, W. J., Jr., 389
Raynard, M., 496
Razin, S., 423, 432, 433, 435
Reaume, S. H., 342
Rebeyrotte, N., 334, 336
Recher, L., 552
Redmond, M. L., 107
Reed, G. B., 109
Reed, L. J., 237
Reed, R. E., 651
Reeves, H. C., 225-56; 238, 245, 247, 248, 250
Reeves, P., 258, 259, 269, 270, 272, 274, 279, 605
Reeves, P. R., 260, 273, 275
Refrai, M., 509
Reginster, M., 52
Reh, M., 53
Reich, E., 369, 370, 372
Reichman, M. E., 218
Reilly, H. C., 260
Reilly, J. R., 79
Reissig, J. L., 620
Reiter, D., 111
Reitz, A., 144
Rennie, J. C., 470, 489
Rentlen, H. A., 496
Repaske, R., 446
Repko, T., 377, 378, 632
Reporter, M. C., 577
Retey, J., 246
Reuschel, H., 333
Reusse, U., 510
Revel, M., 388, 393, 403
Reynolds, B. L., 273, 275
Reynolds, F. H. K., 647
Rhode, J. R., 209, 213
Rhodes, J. M., 176, 185
Ribi, E., 424
Riccardo, D., 557, 558
Rich, A., 385, 388, 389, 394, 396, 397, 398, 405, 407, 409
Rich, A. R., 190
Rich, F., 645
Rich, M. A., 529-72; 533, 534, 536, 537, 538, 539, 540, 541, 542, 543, 544, 548, 549, 550, 552, 554, 555, 556, 559, 560
Richards, F. F., 189
Richardson, C. C., 369, 375, 376, 377
Richardson, J. P., 370, 371, 374
Richter, A., 615
Richter, G. W., 587
Richter, M., 198
Richter, M. N., 531
Richter, W., 510
Rickenberg, H. V., 59, 60
Riedel, B., 242, 243
Riehl, H., 654
Rieke, W. O., 182, 183
Riemann, H., 495-528; 102, 500, 501, 502, 503
Riepertinger, C., 241
Rieveri, H., 509
Rifkind, R. A., 396
Rigopoulos, N., 39, 311
Riha, I., 186
Riley, M., 58, 279
Riley, R. L., 646, 651
Rilling, H. C., 152
Ringelmann, E., 241, 242, 243
Ringo, D. L., 35, 36, 37, 38, 39
Rioche, M., 508
Ris, H., 608
Risebrough, R. W., 384, 387, 388, 396
Risse, H. J., 448, 449
Ristow, H., 386
Ritossa, F. M., 387
Rittenberg, D., 238
Rittenberg, S. C., 309
Ritter, D. B., 652
Roantree, R. J., 443-66; 453, 454, 455
Robbins, E., 593
Robbins, P. W., 446, 449
Robbins, W. J., 42
Roberts, A. N., 184
Roberts, C. F., 259, 266
Roberts, D. S., 79
Roberts, F. F., 111
Roberts, R. B., 383, 385, 386, 404, 407
Robertson, J. D., 418, 420
Robertson, M. H., 510, 512
Robertson, W. Van B., 577, 578, 581
Robic, J., 652
Robins, A. B., 338
Robinson, J. D., 114, 229, 230
Robinson, W., 584
Robinson, W. S., 343, 369, 370, 371, 372, 373, 552, 553, 554
Robison, M., 388
Rochow, W. F., 212
Rodrigo, R., 132
Roelofsen, P. A., 296, 310
Roemmele, O., 513
Rogers, A. B., 503
Rogers, L. L., 239
Rogers, R., 508
Roggen, D. R., 213
Rohde, R., 508, 509, 510, 512
Röhr, W., 509
Roizman, B., 592
Rokey, N. W., 507
Rolfe, R., 377
Rollins, E. L., 446
Romano, A. H., 74
Romano, C. A., 304
Romanova, A. K., 311
Ronneberg, C. E., 642, 651, 659
Rörsch, A., 52, 57, 358
Rorsch, B., 616
Rose, A. H., 101-20; 102, 106, 107, 108, 109, 110, 113, 115
Rosebury, T., 641, 642

Roseman, S., 437
Rosen, S. M., 437, 443, 445, 448, 449
Rosen, W. G., 43
Rosenau, W., 189, 190
Rosenbaum, J. L., 36
Rosenberg, A., 43
Rosenberg, B. H., 377
Rosenberg, B. L., 377
Rosenberger, C. R., 651
Rosenblum, E. N., 558
Rosenthal, M., 577, 579
Ross, H., 654
Rosselet, J. P., 91
Rosset, R., 374
Rossi, C., 507, 509
Rotblat, J., 338
Roth, J., 62
Roth, L. E., 35, 36, 37, 38, 39
Roth, N. G., 109
Roth, T. F., 38
Rothenbacher, H., 507
Rothfels, K. H., 574, 575, 585
Rothfield, L., 437, 443, 445, 446, 448
Rothman, F., 59
Rothman, J. L., 609, 610
Rothman, U., 195
Rothstein, E. L., 552, 555
Rotman, B., 407
Rotschild, J. H., 642, 654, 664, 665, 667
Rous, P. J., 467
Roussos, G. G., 375
Rouvière, J., 372, 376, 388, 405
Rovira, A. D., 107
Rowe, D. S., 188
Rowe, W. P., 543, 544, 557, 563, 564, 565
Rowen, R., 422, 423, 436
Rowley, D. A., 160, 199, 274, 453, 455, 457, 458, 460, 461
Rownd, R., 266, 444, 602
Rozet, E. L., 508
Ruben, S., 22, 24
Rubenstein, I., 343, 613
Rubin, A. D., 594
Rubin, H., 550
Rubner, M., 7
Ruby, R. H., 271
Rudat, K., 509
Ruddle, F. H., 578
Rudel, M., 207, 209
Rudney, H., 233
Rudolphs, W., 504
Rudzinska, M. A., 151
Ruffo, A., 250
Rumanowa, R. G., 511, 512
Rupert, C. S., 357
Ruschmann, E., 448, 449
Russel, R. R., 507
Russell, P. S., 158, 166, 197
Rusu, V., 511
Rutqvist, L., 509, 510, 518
Rutter, W. J., 583, 588
Ryan, F. J., 102, 260, 602
Ryder, E., 242, 243, 244
Ryter, A., 116, 260, 274, 377, 420, 421, 425, 426, 428, 429, 430, 433, 438

S

Sachs, L., 549, 550, 556, 557, 558, 577, 580, 584, 591, 593
Sadler, W. R., 313
Sadler, W. W., 508, 512
Sagan, L., 42, 43
Sager, R., 602
Sagin, J. E., 451
Sahtiyanci, S., 214
St. John, J. H., 647
St. John, R., 102
Sair, L., 503
Saison, R., 479, 489, 490
Saito, H., 261, 277
Saito, K., 459, 460
Saito, M., 41, 651
Sakazawa, C., 133
Sakimura, K., 206
Saksela, E., 576
Salaman, M. A., 562, 563
Salaman, M. H., 551
Salas, M., 399, 403
Salb, J. M., 587, 593
Salovey, R., 330, 331
Salton, M. R. J., 417-42; 418, 421, 422, 424, 425, 426, 429, 430, 431, 432, 433, 435, 436, 437, 446, 449
Saltzman, L. A., 608
Salvin, S. B., 173
Salvkov, I., 508
Salvkow, I., 512
Salzman, N. P., 594
Sampson, K., 214
Samuels, H. H., 373
Sanchez-Marroquin, A., 85
Sandberg, A. A., 574
Sandbu, P., 507
Sanders, F. K., 575
Sanderson, K. E., 444
Sanderson, R. P., 186
Sandoval, H. K., 260
Sanford, K. K., 575, 591
Sanger, F., 399
Sänger, H. L., 208
Sanner, T., 330, 332, 333
San Pietro, A., 43
Sansom, B. F., 470
Santamaria, L., 144, 145, 153
Santos, G. W., 195
Saphra, I., 514
Sarabhai, A. S., 405
Sarich, V. M., 162
Sarin, F. S., 354
Sarkany, J., 72
Sarma, P. S., 544, 565
Sarnat, M. T., 369, 373, 374, 388
Sasakawa, R., 246
Sasaki, S., 511
Sasel, Lj., 356
Saslaw, S., 642, 648, 649, 651
Satler, Z., 511, 514
Sato, G. H., 502, 574, 577, 579, 581, 584
Sato, I., 460
Sato, K., 62, 388, 398, 401, 405
Sato, N., 403
Sauer, F., 227
Sauerbier, W., 347, 351
Saunders, G. F., 105
Savage, R. D., 472
Savage, W. G., 506
Sawa, T., 94
Sawauchi, K., 539, 540
Sawyer, W. D., 647, 649, 656, 657
Scaife, J., 601-38; 263, 604, 612, 614, 621, 623
Scaletta, L. J., 574, 591
Schaaf, A., 508, 509
Schaal, E., 512
Schachman, H. K., 299, 343, 372, 376, 407
Schacter, J., 484
Schaechter, M., 114
Schaeffer, H. J., 241
Schaeffer, P., 260, 261, 602, 604
Schafer, I. A., 577, 578, 581
Schaffner, C. P., 91, 92
Schaller, H., 55, 116
Schambra, F. E., 343, 345
Scharff, M. D., 189, 407, 409, 593
Scharsach, F., 554
Schatz, A., 42
Schechter, I., 173, 174, 184, 185
Schellen, C. G. T. P., 123, 124, 125, 126, 128
Schelling, T. C., 650
Schenck, J. R., 93
Scher, B., 294, 315
Scher, S., 43, 102, 294, 315
Scherr, G. H., 62, 67
Scherrer, K., 388, 396
Scherrer, R., 431
Scheurbrandt, G., 232

Schidlovsky, G., 543
Schiff, J. A., 35, 39, 42, 43
Schildkraut, C. L., 266, 375, 376, 377, 444, 602
Schimke, R. T., 585, 586, 587, 588
Schindler, A. F., 213
Schindler, C. A., 430
Schindler, R., 577, 579
Schive, W., 239
Schlecht, S., 448, 449
Schlegel, H. G., 49-70; 21, 50, 51, 53, 61, 292, 300, 310, 312, 314, 316
Schlessinger, D., 274, 353, 385, 386, 388, 393, 394, 396, 405, 419, 433, 438
Schley, D. G., 655
Schlosshardt, J., 448, 449
Schlossman, S. F., 192
Schlote, F. W., 300
Schmall, A., 498
Schmidt, C. F., 107
Schmidt, G., 448, 449
Schmidt, H. B., 208
Schmidt, K., 307
Schmidt, M. D., 431, 433
Schmidt, P. J., 482, 489, 491
Schmidt, R. R., 378
Schmitz, R., 302
Schnabel, W., 335
Schnaltman, C., 426, 437
Schneir, W., 644, 645, 646, 652, 664
Schnös, M., 263, 603, 630
Scholes, G., 335, 336, 337, 342
Scholz, H. D., 508
Schonheimer, R., 238
Schooley, C. N., 36
Schothorst, M., 508
Schötz, F., 425, 426
Schramm, G., 344
Schramm, T., 557, 558
Schrammeck, J., 297, 316
Schreiber, G., 513
Schröter, K., 512
Schubert, O., 111
Schubert, R., 111
Schuhardt, V. T., 430
Schulman, J. L., 651
Schulman, M. P., 130
Schulte-Holthausen, H., 448, 449
Schultz, C., 512
Schultz, J., 228, 234, 236
Schultz, S. G., 56
Schultze, F., 508
Schultze, W. D., 109
Schuster, C. W., 139
Schuster, E., 53
Schuster, H., 343
Schütz, G., 507, 508
Schütze, H., 445, 455, 506
Schwartz, H. J., 164
Schwartz, J. H., 405
Schwartz, J. K., 56, 62
Schwartz, M., 583, 588, 613, 615
Schwartz, R., 164
Schwartz, R. S., 164, 165, 199
Schwartz, S. O., 534, 543, 546
Schweet, R., 353
Schweet, R. S., 383, 384, 385, 392, 393, 394, 395, 396, 397, 398, 403, 405
Schweizer, E., 234, 235, 236
Schwerin, K. O., 513
Scott, J. F., 369, 384
Scott, W. J., 107, 502
Scott, W. M., 506
Scrimgeour, K. G., 129, 130
Seabury, J. G., 72
Seaman, E., 260, 268, 278
Seamer, J., 487
Sebald, M., 74
Sebring, M., 503
Sedar, A. W., 438
Sedlarik, L., 507, 508
Sedlmeier, H., 508
Seeley, H. W., 111
Seely, G. R., 305
Segel, I. H., 113
Segner, W. P., 107
Segre, D., 484, 485
Segretain, G., 72, 88
Seidel, G., 509, 512
Seiffert, G., 457
Seinhorst, J. W., 208, 211
Sela, M., 173, 174, 184, 185, 406
Seliger, H. H., 143
Sell, S., 188, 197
Senk, L., 507, 512
Sensi, P., 94, 95
Sercarz, E. E., 159, 171, 172
Sergeeva, L. N., 94
Sergeyev, V. M., 649
Sermonti, G., 85
Setlow, J. K., 350, 357, 359
Setlow, R. B., 145, 326, 342, 350, 352, 353, 357, 358, 359
Seto, S., 53
Seubert, W., 239
Severinghaus, C. W., 79
Sforza, L. I., 603, 604
Shaeffer, J., 392, 393, 394, 395, 396, 397, 398, 403
Shaffer, C. R., 356
Shamina, Z. B., 85
Shands, J. W., 422, 452
Shapiro, A., 577, 578
Shapiro, A. L., 407, 409
Shaposhnikov, V. N., 292, 297, 305, 312, 314
Sharma, S. P., 507, 508, 511
Sharma, V. K., 508
Shaughnessy, H. L., 642
Shaw, M., 369
Shaw, M. W., 574, 575
Shaw, N., 131
Shaw, W. N., 242
Shchepkina, T. V., 81, 87
Shearer, M., 594
Shein, H. M., 576, 577
Sheldrick, P., 374
Shemyakin, M. F., 373
Shen, S. R. C., 378
Shenin, Yu. D., 93
Sheppard, D. E., 62
Sherif, I., 507, 508
Shewan, J. M., 107
Shields, H., 331
Shigeura, H. T., 370
Shih-Shan Fang, 661
Shimazono, N., 277
Shimeld, C., 269
Shimizu, S., 133
Shimizu, T., 217
Shimizu, Y., 576, 577, 578
Shin, E., 37
Shinobu, R., 83
Shinohara, C., 426
Shipe, E. L., 650
Shipp, H. L., 502
Shipp, V. G., 577, 578
Shirakata, T., 509, 511
Shirlaw, J. F., 507
Shirling, E. B., 82
Shiro, T., 67
Shlyakhov, E. N., 649
Shockman, G. D., 431, 432
Shon, M., 102
Shooter, E. M., 377
Shorey, C. D., 422, 423, 436
Shortman, K., 187, 188
Shrimpton, D. H., 499
Shubladze, A. K., 651
Shugar, D., 144
Shulman, R. G., 330, 331
Shupe, J. L., 485
Sibal, L. R., 543
Sibatani, A., 387
Sicard, N., 267
Sicardi, A., 605
Siegel, B. V., 551
Siegesmund, K. A., 43
Siegler, R., 529-72; 534, 536, 537, 538, 539, 540, 541, 542, 550, 552, 555, 556, 559

Siekevitz, P., 385
Siemienski, J., 477
Signer, E. R., 609, 610, 614, 618, 619, 620, 621, 622
Sigurdardóttir, B., 474, 482
Sigurdsson, B., 467, 473, 474, 481, 482, 489
Sikes, D., 484
Silaev, A. B., 94
Silbert, D., 388, 398, 401, 405
Silliker, J. H., 497, 498
Silva, P. C., 31
Silver, I. H., 654
Silver, S., 266, 602
Silverman, B. E., 250
Silverman, G. J., 102, 107, 500
Silverman, L., 577, 578, 581
Silverman, M., 128, 130
Silverstein, A. M., 192, 193
Silverstople, L., 510, 511
Silvestre, D., 552
Silvey, J. K. G., 85
Siminovitch, A., 257, 264
Siminovitch, L., 186, 187, 267, 269, 270, 278, 387, 575, 584, 585, 620, 628
Simintzis, G., 508, 509
Simmons, G. C., 509
Simmons, J. S., 647
Simon, E. J., 56, 62
Simon, M. I., 146, 154
Simons, R. D. G., 72
Simpson, J. A., 330, 340, 342
Simpson, K. L., 109
Simson, E., 55
Sinclair, A. C., 93
Sinclair, N. A., 108, 109
Singer, S., 508, 512
Singer, S. J., 436
Singh, B. B., 329, 332
Singh, C. M., 507, 508, 510, 511
Singh, K. P., 41
Singhal, S. K., 198
Sinitsyn, V. P., 655
Sinkovics, J. G., 530, 542, 543, 557, 558
Sinowjewa, I. S., 509
Sinsheimer, R. L., 338, 339, 343, 345, 348, 373, 608
Sinskey, T. J., 500
Sipe, C. R., 166
Siple, P. A., 107
Siskind, G. W., 170, 171
Sisler, E. C., 311, 312
Sistrom, R. W., 300, 301, 302, 303
Sistrom, W. R., 145, 146, 151, 152, 300, 301, 303, 305
Six, E., 615
Sjögren, H. O., 546, 547, 549
Skaliy, P., 641, 650, 655
Skalka, A., 374, 375
Skerman, V. B. D., 299
Skinner, F. A., 87
Skorceva, S., 510, 511
Skorovsky, B., 510, 511
Skovgaard, N., 513
Skuja, H., 288, 299
Skusek, F., 507, 512
Skvortzow, B. W., 35
Slack, J. M., 75
Slavkov, I., 508, 509, 511
Slawkow, U., 508
Slayter, H. S., 370, 371, 396, 397
Slepecky, R., 429, 438
Slepushkin, A. N., 651
Slettenmark, B., 545, 546, 549
Sloan, H. R., 434, 437
Sloane, P., 91
Sly, W. S., 127, 268, 370, 372, 388, 626, 627, 628
Smadel, J. E., 578, 642, 652, 657
Šmarda, J., 272, 273
Smellie, R. M. S., 369, 555
Smetana, H. F., 656
Smillie, R. M., 39, 311, 312
Smirnov, M. S., 649
Smit, T., 508, 509
Smith, A. J., 310
Smith, A. M., 187
Smith, B. R., 215
Smith, C., 430
Smith, C. E., 651
Smith, C. G., 482, 483
Smith, C. J., 556
Smith, D. A., 370
Smith, D. E., 327
Smith, D. T., 72, 88
Smith, D. W., 196
Smith, D. W. E., 388, 398, 401, 405
Smith, E. L., 131
Smith, H., 508
Smith, H. O., 609, 618
Smith, I., 369
Smith, J. D., 386, 394, 405, 406, 407
Smith, J. H. C., 304
Smith, K., 473, 490, 491, 545
Smith, K. C., 148, 333, 355, 358
Smith, K. L., 545, 557
Smith, K. M., 217, 218, 342, 343
Smith, L. D. H., 102
Smith, M. A., 399
Smith, M. E., 499, 510, 513
Smith, N. R., 86
Smith, P. F., 433
Smith, P. H., 122, 124
Smith, R. F., 173
Smith, R. H., 577, 578
Smith, R. T., 158, 159, 165, 167, 169, 171
Smith, S., 624
Smith, S. B., 175, 177
Smith, S. M., 261, 262, 265, 266, 268, 444
Smith, T. F., 578
Smyth, D. A., 510, 513
Smyth, R. D., 132, 133
Sneath, P. H. A., 109, 264, 614, 621
Snell, G. D., 560
Snipes, W., 328, 330
Snow, R., 54
Snyder, L., 373
Snyder, R., 130
So, A. G., 407
Sober, H. A., 192
Sochman, E., 347
Soeiro, R., 388
Soer, H., 508
Soffer, R., 371
Sohler, A., 74
Söhngen, N. L., 124
Sokatch, J. R., 424
Sol, H. H., 208, 211
Söll, D., 388, 401, 405
Solomon, A. K., 56, 385
Solotorovsky, M., 86, 87
Solovoev, S. N., 93
Somerson, N. L., 482, 491
Somerville, R. L., 444
Sommer, J. R., 35, 37, 39, 40
Sonderhoff, R., 238
Sonnabend, J. A., 587
Sonntag, M., 509
Sonohara, H., 55
Sorieul, S., 590
Sorkin, E., 195
Soule, H. D., 557
South, M. A., 199
Southworth, J., 195
Spagina, M. K., 509
Spahr, P. F., 387, 388
Spalla, C., 73
Sparks, J., 651
Sparrow, A. H., 326
Sparrow, N., 556
Speck, M. L., 104
Spencer, J. H., 372
Spencer, R. A., 591
Sperti, G. S., 550
Spertzel, R. O., 652
Speyer, J. F., 388, 408
Spiegelman, S., 369, 371, 373, 374, 383, 384, 386, 387, 388, 401, 405, 407, 652
Spiher, A. T., Jr., 651, 659

Spikes, J. D., 144, 154
Spilman, W. M., 444, 621
Spiner, D. R., 655
Spirin, A. S., 355, 359, 386
Spotts, C. R., 408
Spreafico, F., 198
Spurrier, W. A., 534
Spyrides, G. J., 389, 391, 393, 395
Squires, C. L., 102, 114, 115
Squires, R., 395
Srb, A. M., 52, 54
Stacey, K. A., 55, 337, 338, 351
Stacey, M., 417
Stadtman, E. R., 127, 246
Stadtman, T. C., 121-42; 123, 124, 125, 126, 127, 130, 131, 132, 133, 134, 135, 136, 137, 138
Staehelin, T., 272, 385, 386, 387, 388, 396, 397, 398, 408
Staelens, M., 508
Stahl, F. W., 350, 355, 358
Stahl, W. J., 245
Stahn, I., 510, 511
Stakman, E. C., 654
Stamatov, T., 511
Stamp, J. T., 489
Standfuss, R., 505, 506, 514
Standifer, M. S., 213
Stanier, R. Y., 50, 58, 73, 109, 145, 151, 286, 288, 299, 300, 303, 304, 306, 307, 312, 313, 317, 408
Stanley, N. F., 488
Stanley, S. O., 120, 108, 109
Stanley, W. M., Jr., 399, 403
Stanoev, S., 511
Stansly, P. G., 530, 542, 543, 557
Staples, P. J., 177, 178
Stapleton, G. E., 145, 147, 354
Stapleton, R., 114
Starman, B., 339, 343
Starr, M. P., 299, 666
Staub, A. M., 417, 418, 447, 448, 449, 450, 451, 452, 454
Staule, A. M., 496
Stavrovskaya, A. A., 559
Stebbins, M. E., 42
Steed, P., 421, 436
Steele, J., 504
Steele, J. H., 501, 510, 517
Steele, J. M., 515
Steere, A., 377
Steeves, R. A., 550, 551
Stein, W. D., 434, 437
Steinberg, D., 384
Steinberg, M. S., 593
Steiniger, F., 506, 508, 510
Stellmach, G., 208
Stellmacher, W., 507, 509
Stenberg, H., 509
Stent, G. S., 343, 344, 345, 346, 349, 370, 371, 374, 375, 625
Stephenson, M. L., 369, 384, 394
Stern, A. I., 42, 43
Sternberger, N., 370, 371, 372
Sternholm, R., 246
Sterzl, J., 186
Stevens, A., 369, 370, 371, 372
Stevens, L. C., Jr., 579
Steward, J. P., 454, 455
Stewart, D. L., 575
Stewart, G. E., 109
Stewart, G. F., 512
Stewart, P. R., 233
Stewart, S. E., 189
Stich, H. F., 559
Stickler, D. L., 260
Stierlin, H., 447, 448, 452, 454
Stiffel, C., 445, 453, 455
Still, J. L., 112
Stirm, S., 450
Stjernholm, R., 241, 246
Stockdale, F. E., 576, 577, 581, 584, 592
Stocker, B. A. D., 258, 259, 260, 261, 262, 265, 266, 267, 268, 444, 448, 449, 450, 451, 624
Stockert, E., 547, 548, 550, 560
Stockhausen, F., 50
Stodolsky, M., 374, 388
Stoeckenius, W., 422, 423, 436
Stohlman, F., Jr., 188
Stoker, M., 592, 594
Stokes, J. L., 106, 107, 108, 109, 239
Stone, B. A., 37, 43
Stone, D. M., 511, 512
Stone, S. H., 181-204; 161, 162, 163, 182, 184, 191, 194, 195, 199
Stone, W. H., 172
Stone, W. J., 208, 210
Stoppani, A. O. M., 311
Storz, J., 485
Stouthamer, A. H., 263, 604, 629
Strack, H., 608
Straka, R. P., 108, 109
Strange, R. E., 102
Strassman, M., 250
Strauss, B. S., 357
Strehler, B. L., 577
Streilein, J. W., 162, 195 195
Streisinger, G., 401
Stretton, A. O. W., 405, 406
Strobel, M., 265
Strominger, J. L., 430, 433, 582, 584, 650
Stromskaya, T. P., 559
Strother, G. K., 37
Strother, P. C., 556, 557
Strudel, G., 583
Struthers, M. G., 586, 587
Stubbs, M., 641
Stück, B., 548, 549
Studier, F. W., 338, 339, 360
Stulberg, C. S., 498
Stumpf, P. K., 236
Stuy, J. H., 355
Suarez, G., 391
Subak-Sharpe, H., 575
Subbaiah, T. V., 450
Subbaiuh, T. V., 260, 268, 278
Sueoka, N., 377, 402, 632
Suganuma, A., 421
Sugiyama, T., 371
Suit, J. C., 437, 438
Sukapure, R. S., 83, 90
Sukhodolec, V. V., 55
Sulkin, S. E., 651
Sullivan, J. C., 577, 578, 581
Summers, W., 339
Sundararajan, T. A., 398, 399, 400, 401, 402
Sundelin, P., 538
Sussenbach, J. S., 145
Sussman, R., 276, 626
Suter, E., 460
Sutton, H., 152
Süveges, T., 507
Suzuka, I., 391
Suzuki, H., 376
Suzuki, J., 426
Suzuki, M., 73, 93
Suzuki, N., 260
Suzuki, S., 94
Svejcar, J., 196
Sveshnikova, M. A., 84
Swann, H., 483, 491
Swartendruber, D. C., 356
Sweeney, E. V., 585
Swenson, K. G., 206
Swenson, P. A., 352, 357, 358
Swez, J., 356
Swick, R. W., 246
Swim, H. E., 573
Switzer, W. P., 481, 482, 484, 485, 489

Sykes, I., 301
Sykes, J. A., 532, 552
Symon, K., 642, 643, 644, 645, 646, 649, 651, 657
Symonds, N., 348, 349
Syverton, J. T., 343, 575
Szemerédi, G., 509, 512
Szenberg, A., 188
Szer, W., 115, 389, 407, 408
Szilard, L., 63, 65, 667
Szolyvay, K., 57
Szybalski, W., 333, 339, 355, 358, 371, 627

T

Tadokoro, J., 592
Tae Hyung Kim, 512
Tae U Han, 512
Tagawa, A., 217
Takacs, J., 507, 508, 509, 511, 512
Takagi, Y., 376
Takahashi, H., 53, 133
Takamiya, A., 74
Takanami, M., 389, 390, 393, 405, 406
Takeshita, M., 437, 446
Takeuchi, T., 94
Takeya, K., 260, 420
Takita, T., 94
Tal, M., 369
Talamo, B., 229, 230, 231, 433
Tall, J. E., 186, 187
Tallentire, A., 342
Talmage, D. W., 169, 172
Talukdar, C., 559
Tamarin, A. L., 649
Tamm, I., 369, 555
Tamm, S. L., 36
Tammelin, L. E., 650, 667
Tamoni, G., 94
Tamura, G., 431, 432, 433
Tanaka, M., 276, 277
Tanaka, T., 460
Tanaka, Y., 188
Tandler, B., 260
Tanev, I., 510, 511
Tani, J., 437, 438
Tanigaki, N., 189, 577, 579
Tannenberg, W. J. K., 186, 187
Tannock, G. W., 507
Tarmy, E., 260, 268, 278
Tasaka, T., 508
Tashjian, A. H., Jr., 577, 579
Tatarow, G., 507
Tavormina, P. A., 430
Tawde, S., 189
Taylor, A., 446
Taylor, A. C., 593, 594
Taylor, A. L., 602, 604, 609, 613
Taylor, C. E., 208, 210, 212
Taylor, C. E. D., 507, 510, 512
Taylor, D. O., 551
Taylor, F. H., 647
Taylor, G., 533
Taylor, J., 504, 510, 512, 513, 587
Taylor, J. H., 377
Taylor, K., 627
Taylor, M. J., 560
Taylor, M. M., 111
Taylor, R. B., 172
Taylor, W. D., 340, 346
Taylor, W. I., 497
Taylor, W. W., 145
Tchen, T. T., 577, 579
Teakle, D. S., 206, 217, 218, 219, 220
Teece, G., 105
Teeter, E., 552, 557, 558
Teis, R. V., 22
Téliz, D., 208, 210, 211, 212
Telling, R. C., 63, 575
Temin, H. M., 578, 581, 582, 584
Temmink, J. H. M., 214
Tempelis, C. H., 161, 162, 170
Tempest, D. W., 111, 114
Temple, A., 162, 164, 191
Templeton, B., 622
Tendler, M. D., 104
Tennant, J. R., 560, 561
Terentieva, Z. A., 311
Terplan, G., 508
Terry, T. T., 435
Terts, E., 250
Terzaghi, E., 401
Terzi, M., 326
Tesink, J., 508
Tessman, E. S., 343, 344, 345, 348
Tessman, I., 343, 344, 345, 348
Tetsuo, I., 496
Thach, R. E., 398, 399, 400, 401, 402
Thaemert, J., 274
Thal, E., 509
Thalsen, F. S., 336
Tham, S. H., 419, 427
Thatcher, F. S., 504, 513, 518
Theodore, T. S., 57
Theriot, L., 357, 358, 616
Thiele, H. H., 310, 311, 313, 314
Thimann, K. V., 315
Thirumalachar, M. J., 83, 90
Thjøtta, T., 453
Thoman, M. S., 602, 604
Thomas, C. A., 338, 343, 346, 608
Thomas, C. A., Jr., 614, 615
Thomas, D. W., 496
Thomas, H., 238
Thomas, J., 509
Thomas, J. O., 24
Thomas, L., 170, 171, 191, 419
Thomas, R., 619, 620, 627, 628
Thomas, S. B., 109
Thomasine, Sister Mary, 208, 209, 211, 212
Thomé, M., 86
Thompson, E. B., 577, 579, 585, 586, 587, 588
Thompson, P. J., 105
Thompson, R. C., 215
Thompson, R. E. M., 79
Thorbecke, G. J., 159, 175, 189, 577, 579
Thormar, H., 474, 476, 482
Thorne, C. B., 648
Thorne, D. S., 667
Thorne, G., 209
Thornley, W. R., 485
Thurlbeck, W. M., 483
Tigertt, W. D., 642, 646, 647, 649, 651, 652, 656, 657, 663, 666
Tihonienko, A. S., 84
Tikhonenko, T. I., 371
Till, J. E., 354, 584
Timoféeff-Ressovsky, N. W., 326
Timofieieva, K. A., 82
Tinelli, R., 450, 451
Tinker, K., 311
Tipper, D. J., 650
Tissières, A., 353, 371, 375, 385, 386, 393, 396, 405
Titchener, E. B., 239
Tjio, J. H., 578
Tobita, T., 385, 394
Tocchini-Valentini, G. P., 369, 373, 374, 388
Todaro, G. J., 573-600; 574, 575, 576, 577, 578, 581, 582, 584, 588, 593, 594
Todd, F. A., 658
Todhunter, K. H., 64
Todorov, I., 512
Tokunaga, T., 420
Tokushige, H., 509, 511
Tomasz, A., 425
Tomizawa, J., 58, 613
Tomkins, G. M., 388, 398, 401, 405, 577, 579, 585, 586, 587, 588
Tomlin, P. A., 333, 355
Tomlinson, J. A., 214, 215, 216

Tomoseda, U., 53
Toney, M., 509
Tönnis, B., 239
Toomey, R. E., 230, 231, 237, 238
Tootle, M., 581
Topley, W. W. C., 457
Toplin, I., 557, 558
Topper, Y. J., 592
Topping, N. E., 182
Torriani, A., 59
Toschi, G., 105
Toth, I., 507
Tracewell, T. N., 647
Trainin, N., 169
Tranzer, J. P., 184
Traub, A., 369
Traub, E. A., 487
Traub, P., 272, 387, 408
Traub, R., 657
Traut, R. R., 387, 392, 394, 395, 403
Trawińska, J., 508, 509, 512
Trebst, A. V., 311, 312
Trenti, F., 508, 509
Tresner, H. D., 84
Tressell, H. B., 652
Tridenete, G., 552
Trinkaus, J. P., 578, 593
Trop, M., 245
Trudel, P. J., 536
Truffa-Bachi, P., 63
Trujillo, T. T., 370
Trüper, H. G., 61, 309, 310, 314
Trupin, J., 388, 401, 405
Tryggvadottir, A., 481, 482, 489
Tsiganov, V. A., 75, 81, 82
Tsiklinsky, M., 107
Tsiklinsky, P., 88
Tsi-Shen, J., 83
Ts'o, P. O. P., 149, 385, 387
Tsonev, T., 512
Tsuchida, R., 559, 560
Tsuchiya, Y., 67, 508
Tsugita, A., 401
Tsuiki, S., 250
Tsuji, S., 195
Tsumagari, H., 216
Tsuruoka, M., 93
Tsyganov, V. A., 93
Tu, L., 387
Tubaki, K., 74
Tubbs, R. K., 147
Tucker, R. G., 260
Tugwell, R. L., 513
Tulis, J. J., 649
Tung, J., 377
T'ung, T., 144
Türck, G., 146
Turk, J. L., 181, 182, 184, 185, 188, 195, 196, 199
Turner, A. W., 485
Turner, H. C., 544
Turner, K. J., 189, 457, 458
Tustin, R. C., 509
Tutt, E. M., 454
Tuttle, L. C., 105
Tyler, M. E., 650
Tyler, W. S., 481, 483
Tyndall, R. L., 552, 557, 558
Tynes, B. S., 510
Tyrell, D. A. J., 654
Tzagoloff, A., 434

U

Udaka, M., 114, 115
Udenfriend, S., 406, 581
Ueda, K., 35, 39, 41
Ueda, S., 511
Uffen, R. L., 111
Uhr, J. W., 181, 182, 183, 189, 192, 200, 407, 409
Ullman, A., 604, 621
Umbarger, H. E., 62, 250
Umbreit, W. W., 53, 433, 438
Umezawa, H., 94
Unanue, E. R., 477
Ungureanu, C., 507, 510
Uozumi, T., 217
Upadhyay, J., 109
Upton, A. C., 557, 558, 559
Urakowa, S., 509, 511
Urbano, C., 245
Uretz, R. B., 148
Urselmann, A. J., 507, 509
Usenick, E. A., 166
Ushiba, D., 453, 455, 456, 457, 458, 459
Uspenskaya, V. E., 315
Utell, M., 652, 656
Utermöhl, H., 288, 298, 299
Utz, J. P., 510
Uyemoto, J. K., 218

V

Vagelos, P. R., 227, 228, 229, 230, 231, 233, 234, 235, 236, 239, 242, 243
Vahlne, G., 510, 511
Vaisey, E. B., 336
Valentine, R. C., 311
Vallee, A., 509
Vallette, H., 507, 508, 512
Valulis, B., 375
Van-Bogaert, L., 467, 473, 474
van Bruggen, E. F. J., 370
van de Putte, A., 616
Van de Putte, P., 52, 57, 358
Van Der Gaag, H., 550
van der Meer, F. A., 208
van der Meer, J. H. H., 214
van der Meulen, H. S., 513
van der Want, J. P. H., 209, 217
Vanderwinkel, E., 426
Van de Vorst, A., 331
van Dillewijn, J., 52, 57
van Dorst, H. J. M., 217
van Dreal, P. A., 41
Van Duin, J., 388, 390, 398, 405
Van Dyke, J., 483, 491
Vaněk, Z., 84
van Genderen, H., 311
van Hoof, H. A., 208, 210, 211, 212
van Iterson, W., 419, 420, 425, 426, 427, 428, 438
van Keulen, A., 507, 508, 509, 510, 512
van Koot, Y., 217
van Niel, C. B., 1-30; 8, 11, 13, 18, 20, 21, 22, 23, 24, 26, 28, 49, 50, 63, 64, 286, 291, 292, 293, 294, 295, 296, 297, 298, 299, 302, 303, 304, 311, 312, 313, 316, 317, 318
van Oye, E., 507, 508, 509
van Rhee, R., 502, 503
Van Roekel, H., 499, 502
van Schothorst, M., 498, 500, 512
van Steveninck, J., 113
van Veen, W. L., 64
Van Vunakis, H., 146, 154
Van Winkle, W., 147
van Zijl, H. J. M., 509
Vapcarova, M., 508
Varde, M., 592
Vareka, G., 512
Vass, W., 565
Vassiliadis, P., 510, 511
Vatter, A. E., 299, 304
Vaughan, J. H., 191
Vaughan, L. M., 654
Vaughan, M., 384
Vaughn, R. H., 109, 499
Vavra, J., 37
Vegetti, G., 85
Velaudapillai, T., 507, 508
Velikodvorskaya, G. A., 371
Vella, E. E., 509
Veltsos, A., 507
Venatianer, P., 388, 398, 399, 401, 405
Vendrov, E. L., 559
Venema, G., 438
Venkataraman, P. R., 369
Venn, J. A. J., 513
Venner, H., 259
Vermeulen, C. A., 438

Vermeulen, C. W., 387
Verney, E. L., 577, 579, 584
Vernon, E., 512, 513
Vernon, L. P., 305
Vernon, T. R., 84
Veselinov, V., 509, 510, 511
Vessey, K. B., 338, 343, 345, 346, 347
Viaene, N., 508
Vice, J. L., 543
Vidrine, J. G., 557, 558
Vielmetter, W., 55
Vigier, P., 534, 557
Villee, F., 331
Vilsanskaja, F. L., 511
Vincent, H., 88
Vincent, J., 509
Vinegar, R., 145
Vinograd, J., 336, 339, 343, 385
Virchow, R., 536
Vishniac, W., 131, 287
Vizsolyi, J. P., 372
Voelz, H., 552
Vogel, H. J., 74
Vogel, W. H., 130
Vogt, P. K., 564
Volkin, E., 355, 384, 387, 388
von der Decken, A., 395
von Drigalski, 452
von Ehrenstein, G., 388, 389
von Hein, D., 510
von Holst, H. E., 662
von Wettstein, D., 42
Voorma, H. O., 388, 390, 398, 405
Vorbeck, M. L., 432
Vorder Bruegge, C., 656
Votrin, I. I., 369
Vozumi, T., 217

W

Waaler, E., 453
Wachsman, J. T., 54, 55
Wacker, A., 146, 347, 353, 357
Wager, H., 32
Wagman, G. H., 91, 92
Wagner, B. M., 467, 477, 480
Wagner, O., 247
Wagner, R. R., 587
Wahba, A. J., 388, 399, 403
Wahl, R., 357
Wahren, B., 532, 545, 550
Waite, M., 240, 241, 242
Wakefield, J. D., 189, 577, 579
Wakil, S. J., 227, 228, 229, 230, 231, 232, 236, 237, 238, 239, 240, 241, 242
Wakonig, R., 559
Wakonig-Vaartaja, R., 559
Waksman, B. H., 163, 175, 177, 178
Waksman, S. A., 71, 72, 73, 74, 82, 83, 89, 90, 92, 93, 96, 104
Wald, N., 559
Walen, K. H., 578
Walkinshaw, C. H., 208
Wallace, P. G., 419, 427
Wallach, D. F. H., 419, 431, 436
Wallenfels, K., 59
Waller, J. P., 387, 399
Wallis, V., 559
Wallnöfer, P., 147
Walls, B. E., 482, 491
Walsh, W. M., Jr., 330, 331
Walter, W. G., 106
Walters, M. N. J., 488
Wanebo, H. J., 542
Wang, S. F., 250
Wang, S. Y., 55, 357
Ward, J. F., 336, 337, 342
Ward, M. K., 652, 656
Wardlaw, A. C., 457, 487, 490
Warms, G., 242
Warner, J. R., 385, 386, 388, 394, 396, 397, 398
Warner, R. C., 242, 243, 370, 373
Warren, S. L., 343
Warschawski, E. J., 511, 512
Warshowsky, B., 649, 650, 653, 655
Warth, A. D., 102
Washington, C. L., 575, 580
Wasson, G., 228, 236
Watanabe, A., 370
Watanabe, E., 93
Watanabe, M., 369
Watanabe, R., 602
Watanabe, S., 94
Watanabe, T., 265, 602, 604, 605, 624, 628, 631
Watkins, H. M. S., 654
Watkins, J. F., 592
Watson, J. D., 343, 353, 384, 385, 386, 387, 388, 390, 391, 392, 395, 396, 398, 403
Watson, R., 339
Watson, S. W., 426, 427
Watt, J., 515, 516
Watts-Tobin, R., 388
Waxberg, G., 518
Weaver, P., 311
Webb, R. B., 147
Webb, R. W., 206
Webb, S. J., 653, 654
Weber, C. S., 583
Webster, L. T., 452, 457
Webster, L. T., Jr., 246
Webster, M. E., 451
Webster, R. E., 248
Webster, W., 400
Wecker, E. E., 190
Wedderburn, N., 551
Wedum, A. G., 641, 648, 657
Wegener, W. S., 225-56; 245, 247, 248, 249, 250
Weibull, C., 420, 424, 426, 428, 430, 431, 432, 433
Weidel, W., 421, 436, 445
Weidemann, J. F., 109
Weidenreich, F., 182
Weidlich, N., 510, 511, 512
Weigert, M. G., 405
Weigle, J., 336, 339, 602, 616
Weigle, J. J., 150, 608
Weigle, W. O., 159, 160, 161, 162, 165, 169, 172, 173
Weil, L., 154
Weil, R., 343
Weiler, E., 186
Weill, J. D., 369, 370
Weinbaum, G., 436
Weiner, I. M., 446
Weinstein, E., 406
Weinstein, I. B., 115
Weinstein, M. J., 91, 92
Weisberg, R. A., 620
Weisblum, B., 388, 389
Weischer, B., 208
Weiser, J., 31, 642, 643, 644, 645, 646, 649, 651, 657
Weiss, D. W., 550
Weiss, J. J., 333, 335, 336, 337, 342
Weiss, M. C., 590, 591, 592
Weiss, P., 589, 593
Weiss, R., 554
Weiss, S. B., 369, 370, 371, 372, 373, 374, 384, 388
Weissbach, A., 608
Weissbach, H., 132, 133, 134
Weissmann, C., 369
Welch, M. M., 84
Welker, N. E., 436
Wellensiek, H. J., 184
Weller, P. K., 342, 346
Wells, R. D., 382
Wells, S. A., 577
Wells, W. F., 643
Wells, W. W., 228, 234, 236
Welsh, M. F., 211
Welsh, P. D., 188
Welz, W., 512
Wenger, B. S., 592
Wenrich, D. H., 31

Wermerssen, H., 512
Wertlieb, D., 287
Wesselinoff, V., 509
Wesselinoff, W., 509
Wessells, N. K., 583, 588
West, M., 665
Westenbroek, C., 358
Westphal, O., 417, 418, 443, 446, 447, 448, 449, 450, 451, 452, 454
Wettstein, F. O., 385, 386, 388, 394, 396, 397, 398
Whang, J. J., 189
Wheat, R., 443, 445, 446, 448, 449, 451
Wheat, R. W., 445, 446
Wheaton, R. B., 109
Wheeler, C. M., 336, 337, 351
Wheeler, J. R., 198
Wheeler, M., 336
Whitby, J. L., 454, 455, 460
White, F. H., Jr., 406
White, J. D., 647
White, J. R., 408
White, R. G., 184
Whitehouse, H. L. K., 614
Whitehouse, M. W., 583
Whitfield, H. J., Jr., 388, 398, 401, 405
Whitmore, G. F., 354
Whittaker, J. R., 578, 581, 584
Whittenbury, R., 299, 301, 311
Whittlestone, P., 481, 482, 489
Wiadrowsky, M. N., 541
Wiegeshaus, E., 196
Wiesmann, E., 510
Wigzell, H., 183, 199
Wiktor, T., 507, 508
Wilde, C. E., Jr., 580
Wilder, O. H. M., 500
Wilkinson, R. G., 448, 449, 450
Wilkinson, R. J., 499
Wilkinson, S. G., 446
Williams, D. L., 370
Williams, G. M., 171
Williams, G. R., 418
Williams, O. B., 102
Williams, R. C., 343
Williams, R. C., Jr., 478, 479
Williams, R. P., 110
Williams, R. W., 145, 339, 356, 359
Williams, T., 508
Williams-Ashman, H. G., 369
Williamson, A. R., 189
Williamson, D. H., 250
Williamson, I. P., 228, 229, 230, 237, 238
Willmer, E. N., 574
Wilochanskaja, F. L., 511, 512
Wilson, A. C., 162
Wilson, B. B., 107
Wilson, D. B., 190
Wilson, D. C., 109
Wilson, D. D., 189
Wilson, D. E., 344
Wilson, E., 512
Wilson, H. E., 642, 648, 651
Wilson, J., 457
Wilson, J. G., 513
Wilson, J. W., 72
Wilson, P. W., 53
Wilson, R. G., 555
Wilson, S., 337
Winder, F. G., 239
Windsor, G. D., 472
Winger, A., 75
Winkle, S., 509, 510
Winkler, G. F., 474
Winkler, U., 347
Winogradov, A. P., 22
Winogradski, S., 50
Winogradsky, S., 20, 295, 297, 302
Winslow, R. D., 210, 212
Winslow, R. M., 404, 405
Winter, J. W., 514
Wiór, H., 510
Wisseman, C. L., 657
Witkin, E. M., 51, 358
Witten, C., 274, 275, 278
Wittenberg, J. B., 128
Witter, L. D., 106, 108, 109, 115
Witting, M. L., 408
Woese, C., 343
Woffen, D. H., 342, 346
Wohlheiter, J. A., 266, 602
Wohrab, R., 509, 512
Wolf, A., 642, 643, 644, 645, 646, 649, 651, 657
Wolf, B., 625
Wolf, D., 508, 509
Wolf, D. E., 239
Wolf, H. W., 650
Wolfe, E. K., Jr., 643
Wolfe, R. S., 125, 126, 127, 128, 129, 131, 132, 133, 134, 135, 136, 137, 299, 304
Wolin, E. A., 125, 126, 131, 132, 134, 136, 137
Wolin, M. J., 125, 126, 131, 132, 134, 136, 137
Wolken, J. J., 35, 36, 37, 39, 42
Wollman, E. L., 257, 261, 264, 267, 269, 270, 343, 444, 602, 603, 604, 619, 620, 624
Wolman, S. R., 575
Wolstenholme, D. R., 438
Wolstenholme, G. E. W., 197, 199
Won, W. D., 654
Wong, D. T. O., 244
Wood, E. J. F., 108, 109
Wood, H. G., 126, 132, 133, 138, 241, 246
Wood, J. M., 127, 128, 129, 131, 133, 134, 135, 136, 137
Wood, M. L., 166, 197
Wood, W., 371
Woodburn, M., 512
Woodruff, M., 43
Woodruff, P., 512
Woods, D. D., 130, 131, 138
Woodward, R. T., 652
Woodward, T. E., 649
Woodward, V. W., 52
Worden, P. B., 301
Work, E., 446
Woronin, M., 214
Wortis, H. H., 186
Wright, A., 446, 449
Wright, B. E., 131
Wright, B. S., 543, 557, 558
Wright, G. G., 648
Wright, G. W., 513, 643
Wright, J. H., 77
Wright, L. J., 152
Wright, M. H., 239
Wu, R., 608
Wurtman, R. J., 577
Wyard, S. J., 328, 331
Wydrina, E. L., 508, 509
Wyllie, R., 556
Wyluda, B. J., 330

Y

Yaeger, R. G., 43
Yagi, Y., 189, 577, 579
Yamagishi, H., 602, 608
Yamaguchi, T., 76, 80, 83, 93, 431, 432, 433
Yamaguchi, Y., 455
Yamamato, K., 579, 590, 591
Yamamoto, L., 113
Yamamoto, R., 512
Yamamoto, T., 551, 561, 562
Yamamura, Y., 239
Yamano, A., 446
Yamanoi, A., 67
Yamashiroya, H. M., 649
Yamaura, K., 551
Yan, Y., 405, 406
Yang, P. C., 236, 237, 251
Yango, L. D., 65, 66
Yaniv, M., 116
Yankow, Tz., 511

Yanofsky, C., 388, 398, 401, 405, 407, 444, 609, 611
Yanofsky, S. A., 374, 386, 387, 388
Yarmolinsky, M. B., 392, 394, 618
Yaron, A., 192
Yarus, M. J., 345
Yarwood, C. E., 215
Yasumura, Y., 577, 579
Yates, M., 453, 506
Yavo, I., 226
Ycas, N., 102
Yegian, C., 375
Yen, C. Y., 554
Yerganian, G., 574, 592
Ylstra, J., 357
Yokoya, F., 104
Yoneda, M., 375, 377
York, G. K., 104
Yoshida, A., 385, 394
Yoshida, K., 545, 557
Yoshida, M., 591
Yoshida, M. C., 576
Yoshikawa, H., 377, 632
Yoshikawa, M., 388
Yoshimura, M., 175
Yosida, T. H., 559
Youn, J. K., 543, 557, 558
Young, E. T., 339, 608
Young, G. B., 487
Young, J. R., 430
Yount, V., 39
Yousef, M., 507, 508
Yuan, L., 195
Yudkin, M. D., 431, 432, 433, 438
Yumoto, T., 552
Yura, T., 385
Yurina, M. S., 93

Z

Zabin, I., 388, 398, 401, 405
Zachau, H. G., 384, 388, 389
Zagaevskii, I. S., 509
Zagas, V., 468
Zahalsky, A. C., 42, 43
Zaharija, I., 509
Zahler, P. H., 436
Zähner, H., 95, 96
Zajdela, F., 534, 557
Zak, S. J., 174
Zakordonets, V. S., 508
Zaleski, S., 507, 509
Zamecnik, P. C., 369, 383, 384, 394, 395
Zamenhof, S., 102, 147
Zamir, A., 353, 389
Zaplina, I. A., 75
Zavarine, R., 333, 355
Zeleznick, L. D., 437, 443, 445, 448, 449
Zelis, R. F., 369
Zentner, R. J., 654
Zenzes, M. T., 574
Zeszotek, E., 371
Zetterberg, B., 662
Zhelev, V., 507
Zhoukova, R. A., 82
Zhukova, I. G., 431, 433, 436
Zhukova, R. A., 93
Zia, S. H., 144
Zichichi, M. L., 161
Ziegel, R. F., 552, 554, 558
Zillig, W., 369, 370, 385
Zilliken, F., 583
Zimm, B. H., 337
Zimmer, K. G., 326, 327, 333
Zimmerman, F., 351
Zimmerman, L., 653, 654
Zimmerman, S. B., 348
Zimmermann, H., 506
Zinder, N. D., 343, 400, 405, 444
Zinder, R. J., 52
Zink, F. W., 215, 216
Zinner, H., 259
Zipser, D., 388, 398, 399, 401, 405, 407
Zissler, J., 618
Zlotnik, I., 470, 489
Zobell, C. E., 108
Zubay, G., 390
Zubova, O. V., 94
Zucker-Franklin, D., 419
Zuckerman, B. M., 209, 213
ZuRhein, G. M., 468
Zwaig, N., 61
Zwart, D., 507, 508, 509
Zwillenberg, L. O., 428
Zygmut, W. A., 430

SUBJECT INDEX

A

Aburamycin
  from streptomycetaceae, 90
2-Acetamido-3H-phenoxazin-3-one
  source and activity of, 95
Acetate
  methane fermentation of, 138
Acetyl-coenzyme A carboxylase
  in fatty acid synthesis, 238-44
    historical background of, 238-39
    involvement in carboxylation, 239-40
    reaction mechanisms involving biotin, 240-41
    as regulator of, 241-42
  molecular structure of, 242-44
Acetyl transacylase
  in fatty acid synthesis, 229
Achromobacter
  psychrophilic, 109
Acridines
  as photosensitizer, 144, 147
Actinobacillus mallei
  in biological warfare, 665
Actinoidin
  characterization of, 93
Actinomycetes, 71-100
  antibiotics from, 89-95
  cell wall constituents of, 76
  classification of, 75-89
    thermophilic, 104
  general properties of, 72-75
    bacterial, 73-75
    fungal, 72-73
  phylogenetic relationship to eubacteria, 78
  siderochromes, 95-96
Actinomycin
  on cellular enzyme induction, 587
Actinoplanaceae
  antibiotics from, 92-93
  classification of, 81-82
Acyl carrier protein
  and fatty acid metabolism and synthesis, 226-35
Adenomatosis, infectious
  etiology of, 467
Adenosine triphosphate (ATP)
  in methane synthesis, 137
Adrenal cortical cells
  differentiation in, 579, 581
Aerosols
  in biological warfare, 642-43, 646
African swine fever
  in biological warfare, 659
Alcaligenes
  psychrophilic, 109
Aleutian disease of mink
  viral etiology of, 477-80, 487, 489-90
Algae
  psychrophilic, 109
Alkaline phosphatase
  of leukemia-infected host cell, 554, 556
Aminopterin
  inhibition of methane formation by, 130
Amphotericin B
  for enrichment culture, 54
Anemia, infectious equine
  viral etiology of, 480, 487
Anisonema costatum
  cell organization and ultrastructure of, 35
Antarctic
  microbial flora of, 107-8
Anthrax
  in biological warfare, 641, 643, 647-49, 651-52, 656, 658, 667
Antibiotics
  from actinomycetes, 89-95
  for enrichment culture, 52-54
  and Salmonella growth, 503-4
Antibodies
  see Immunoglobulins
Antigens
  lack of adjuvanticity of, 161, 176
  structural and functional relations of, 160-62
  see also Salmonella O antigens and other specific types
Antilymphocytic serum
  chronic use of, 198
Antimetabolites
  for enrichment culture, 56
Arabis mosaic virus
  nematode vectors of, 207-10, 212
Arthritis
  microorganisms in etiology of, 483-85, 489, 491
Arthrobacter
  psychrophilic, 109
Ascorbic acid
  in cell culture, 576, 581
Astasiaceae
  taxonomy of, 32, 34
Astasia longa
  cell organization and ultrastructure of, 35-36
Astrocytes
  differentiation in, 577
Ataxia, cerebellar
  viral etiology of, 476-77
Athiorhodaceae
  anaerobic dark metabolism in, 314
  budding as growth mode in, 299
  classification of, 317-18
  ecology of, 288, 291
  enrichment and isolation of, 291-95
  photometabolism in, 311
Auxotrophs
  enrichment culture of, 51-57
8-Azaguanine
  on cellular enzyme induction, 587
  for enrichment culture, 54
Azobenzenearsonate
  tolerance production by, 163, 174
Azotobacter agile
  radiosensitivity of, 355

B

Bacillus sp.
  cell wall of, 420, 425-30, 432-33
Bacillus cereus
  radiation sensitivity of, 355
Bacillus licheniformis
  cell wall of, 432
Bacillus megaterium
  cell wall of, 419, 429-30,

432-33
Bacillus prodigious
photosensitivity of, 150
Bacillus pyocyaneus
light effects on, 144
Bacillus stearothermophilus
cell wall of, 434
Bacillus subtilis
aerosolization of, 654
cell wall of, 426-30, 433-34, 436
nucleic acid polymerases of, 376-77
radiation sensitivity of, 355, 357
Bacitracin A
for enrichment culture, 53
Bacteria
aerosol dispersion of, 642-43
ionizing radiation effects on, 350-62
mating model, 633
photosensitivity of
with photosensitizer, 143-50
without photosensitizer, 150-53
summary, 153-54
radiation biology of, 354
recombination in, 614-15
survival of, 143-56
Bactericidins
and O antigens, 454
Bacteriocins, 257-84
chemistry of, 259-61
concluding remarks, 279-80
genetic determinants of, 261-69
mode of action of, 269-79
purification of, 260-61
Bacteriophage
see Phage
Bedsonia
and arthritis, 484-85
Benzo(a)pyrene
as photosensitizer, 148-49
Biological warfare
defenses against, 639-76
administrative measures, 660-62
introduction to, 639-42
medical, 655-58
physical and chemical, 649-55
physiological, 646-49
psychological, 645-46
restoration measures, 659-60
speed in identification, 652
veterinary and agricultural, 658-59
water, food, and drug protection, 659
international aspects of, 663-68
case for disarmament, 663-66
control and inspection problems, 666-68
inhibition of development of, 663
probable infectious agents in, 658
as weapons system, 642-45
Biotin
in carboxylation reactions, 239-41
structure of, 239
Birds
salmonellosis of, 508
Botulinum toxin
in biological warfare, 644, 648, 665
Boutonneuse fever
in biological warfare, 658
Brucella abortus
in biological warfare, 642-48
photosensitivity of, 144
Brucella sui
in biological warfare, 647
Burkitt lymphoma
immunoglobulins of, 189
Bushy stunt virus
radiation of, 343

C

Calcimonas physaloides
cell organization and ultrastructure of, 35-40
Calcium ion
in protein synthesis, 390
Carbon dioxide
fixation of, 311-12
as source of methane, 124-28
Carbon monoxide
in methane fermentation, 127
Carboxydismutase
regulation of activity of, 312
Carcinogenesis
photodynamics of, 144
Carcinoma
differentiation in, 579
Cardiovascular disease
microorganisms in etiology of, 485-87
β-Carotene
in photosynthetic bacteria, 307
Carotenoids
of photosynthetic bacteria, 305-9
representative, 308
Cattle
salmonellosis of, 507
Caulobacter crescentus
cell wall of, 426, 428
Cell culture
differentiation in, 576-79
embryonic induction, 583-84
evolution in, 574
fertilized eggs, 582-83
hematopoietic cells, 584
leukemia virus, 556-58
cultivation of infected tissues, 558
infection of normal cells, 557
nutritional requirements
mammalian, 573
serial
growth properties, 574-76
see also Enrichment culture
Cell, mammalian
differentiation in, 573-600
and adaptation, 587-89
cell-cell interactions, 592-94
in cell culture, 576-79
conclusion, 594-95
dedifferentiation, 584-85
disorders in, 589-90
dynamics vs. established state of, 582-84
growth control, 592-94
growth-differentiation antagonism, 581-82
induction of specific proteins, 585-87
somatic cell hydridization, 573, 590-92
stability of, 580-81
polykaryocyte formation in, 592
Cell membrane
and adhesiveness, 593-94
comparison of Salmonella and E. coli, 444-52
lipid, 446
mucopeptide, 445-46
polysaccharides, 446-52
protein, 446
protein solubilization methods, 436
sources of, 419
structure and function of, 417-42
biochemistry, 433
chemical composition, 432
conclusions, 438
in Gram-positive bacteria, 430-34
introduction to, 417-20

membrane and envelope structure, 434-38
protein transport in, 434
status of mesosome, 424-30
terminology, 420-24
Cells
immune responses of, 181-204
Cell wall
see Cell membrane
Central nervous system
diseases of
microorganisms in etiology of, 468-77
Chainia
antibiotics from, 90
Chediak-Higashi syndrome
genetics of, 478, 480, 489
Chelocardin
production and activity of, 93
Chemostat
concentration of limiting substrate in, 66
elaborations of, 63
Cherry leaf roll virus
nematode vectors of, 208
Chikungunya fever
in biological warfare, 652, 658
Chloramphenicol
on nucleic acid synthesis, 378
in salmonellosis, 503
Chlorobactene
in photosynthetic bacteria, 308-9
Chlorobacteriaceae
cellular form and arrangement of, 297-98
classification of, 317-19
ecology of, 288, 290
enrichment and isolation of, 292-93
photometabolism in, 312-15
symbiosis with colorless bacteria, 298-99
vesicular bodies in, 301-2
vitamin B_{12} requirement of, 315
Chlorobium
physiology of, 313
Chlorophylls
bacterial, 304-6
nomenclature of, 305
relationships of, 306
Chloroplast
physiology and development of, 41-43
Chloropseudomonas
physiology of, 313-14
Chloropseudomonas ethylicum
cell membrane of, 419
Chlortetracycline
in salmonellosis, 504
Cholera
in biological warfare, 651, 658
Chondrocyte
differentiation in, 577-78, 580
Choriomeningitis
etiology of, 469
Chromosomes
-episome association, 605-24
of euglenoid species, 40-41
CI gene
physical properties of, 626
product of, 625-28
phage development and mode of action of, 626-28
on phage replication, 628
Classification
of actinomycetes, 75-89
thermophilic, 104
of dermatophilaceae, 79
of euactinomycetes, 79, 88
of euglenaceae, 32-35
of photosynthetic bacteria, 317-19
of thiorhodaceae, 20-21, 317-19
Clostridium kluyveri
in methane fermentation, 135
Clostridium pectinovorum
cell wall of, 427
Coccidioidomycosis
in biological warfare, 651, 656, 658
Colacium cyclopicolum
cell organization and ultrastructure, 35-36, 38-39
Col factors
see Colicins
Colicins, 257-84
adsorption of, 269-70
biochemical cellular effects of, 270-73
classification and nomenclature of, 258-59
col factors of, 261-69
and antibiotic resistance, 605
chemistry and size of, 266-67
description of, 605
fertility of, 262-63
and phages, 265
as plasmids, 261-66
replication of, 267-69
concluding remarks, 279-80
and immunity, 275-76
possible mechanism of action of, 273-75
purification of, 260
tolerant mutants of, 274-75
Colistin
for enrichment culture, 53
Collagen synthesis
disorders in, 590
Coriphosphin
as photosensitizer, 147
Corrinoids
identity of, 132-33
Corynebacterium diphtheriae
photosensitivity of, 144
Corynebacterium poinsettiae
photosensitivity of, 145
Coxiella burnetii
in biological warfare, 642-43, 647-48
Culture
of Salmonella, 497-98
see also Cell culture; Enrichment culture; Organ culture; Tissue culture
Cyclidiopsis acus
cell organization and ultrastructure of, 35
Cyclophosphamide
on immune response, 198-99

D

Degenerative diseases
infectious etiology of, 467-94
arthritis, 483-85
cardiac and cardiovascular diseases, 485-87
CNS diseases, 468-77
discussion, 488-91
introduction to, 467-68
metabolic errors, 487-88
nephritis and nephrotic syndrome, 477-81
respiratory diseases, 481-83
3,4-Dehydroproline
for proline-resistant mutants, 63
Delayed-type hypersensitivity
see Hypersensitivity, delayed
Dengue fever
in biological warfare, 647, 658
Deoxyribonucleic acid
see DNA
Dermatophilaceae
classification of, 79
Desferrisideramines
production of, 96
Diaminopimelic acid (DAP)

and bacterial classification, 77
for enrichment culture, 55
Diethylpyrocarbonate
vs. Salmonella, 503
Differentiation
in mammalian cells, 573-600
Dihydrostreptomycin
for enrichment culture, 53
Dinitrochlorbenzene
and tolerance production, 162-63
Diphtheria
in biological warfare, 658
Diplococcus pneumoniae
photosensitivity of, 144
Disinfectants
and salmonellosis, 503
Distigma proteus
cell organization and ultrastructure of, 35-36
DNA
chromosomal, 602
photosensitivity of, 148
of photosynthetic bacteria, 319
radiation sensitivity of
DNA composition, 337, 355
DNA degradation, 355-57
evidence of radiation repair, 359-61
genetic and molecular repair basis, 357-59
template functions of, 350-52
DNA synthesis
DNA polymerase
general properties of, 375-76
in vitro replication and repair, 376
in vivo replication and repair, 376-77
introduction to, 375
in vivo control of, 378
mammalian, 375
temperature effects on, 116
Dysentery
in biological warfare, 651, 658

E

Echinenone
pigment, 36-37
Eggs, fertilized
cultivation of, 582-83
Electron spin resonance analysis
of nucleic acid radiation damage, 327-33
Embryo
induction system in, 583-84
Emphysema
microorganisms as etiology of, 481, 483
Encephalitis
Japanese B
in biological warfare, 648, 651, 658
Russian spring summer
in biological warfare, 651, 658
Venezuelan equine
in biological warfare, 643, 647-49, 651-52, 656, 658
Endomycin
for enrichment culture, 54
Endosome
in euglenida-euglenophyta, 41
Endotoxin
Salmonella, 505, 514
and tolerance, 160
Energy transfer
in nucleic acids, 331-33
intermolecular, 332-33
intramolecular, 331-32
Enrichment cultures, 49-70
auxotrophs and related mutants, 51-57
defective amphibolism, 56-57
filtration technique, 52
impaired nutrient uptake, 56
lethal synthesis, 54-56
penicillin technique, 52-54
restricted substrate utilization, 56
temperature-sensitive mutants, 57
continuous, 58, 63-66
heterocontinuous systems, 63-64
homocontinuous systems, 64-66
introduction to, 49-51
mutants with altered regulatory mechanisms, 57-63
anabolic enzymes, 61-63
catabolic enzymes, 57-61
of photosynthetic bacteria, 291-95
of resistant and similar type mutants, 51
selection of variants, 51-66
Enterobacteriaceae
bacteriocins of, 257
in biological warfare, 642
salmonellosis, 495-528
Entosiphon sulcatum
cell organization and ultrastructure, 35-36, 38-39
Enzymes
anabolic
mutants with altered use of, 61-63
catabolic
constitutive mutants, 57-60
mutants resistant to repression, 60-61
cellular induction of, 585-87
for yeast fatty acid synthesis, 235-37
Eosin
as photosensitizer, 144-45, 148
Episomes, 601-38
-chromosome association
explanation, 605-24
Campbell model for, 605-7
evidence for, 607-13
insertion, 613
integration mechanism, 615-18
recombination mechanism, 613-15
return to autonomous state, 619-20
transducing mechanisms, 620-24
circularity of, 607-9
conclusion, 634
definition of, 602
homology with chromosome, 615
introduction to, 602-5
F and F' factors, 603-4
R and col factors, 604-5
temperate bacteriophages, 602-3
and mesosomes, 438
regulation of, 624-33
autonomous sex factor regulation, 628-30
evidence of, 625-28
integrated six factor regulation, 631-33
Jacob-Monod model for, 624-25
Erythrocytes
as indicators of immune response, 186
Erythroleukemia
pathology of, 534-37
Erythrosine
as photosensitizer, 144-45
Escherichia coli
cell wall of, 421-24, 426, 434, 436-38
compared to salmonella, 444-52
biosynthetic abilities, 444
cell walls, 445-52
genetics, 444-45
episomes of, 602-3, 607,

613, 621, 626, 630, 632
F factor of
and colicins, 258, 261-64
lipopolysaccharide role in, 418
nucleic acid polymerases of, 369, 375-78
phages of
radiation of, 339, 355-61
photosensitivity of, 144-45, 147-51
protein synthesis mechanisms in, 385-88, 390-91, 393, 395-96, 399-402, 404-8
radiation sensitivity of, 355-61
Ethylenediamine tetraacetic acid (EDTA)
in fatty acid synthesis, 238
on Gram-negative bacterial membranes, 437
Ethylene oxide
decontamination by, 655
α-Ethylmalic acid
synthesis of, 248
Euactinomycetes
key to families of, 79
key to genera of, 88
Eubacteriales
phylogenetic relationship to actinomycetales, 78
Euglena
biology of, 31
Euglenaceae
taxonomy of, 32
Euglena sp.
cell organization and ultrastructure of, 35-38
Euglena gracilis
acyl carrier protein reactions of, 232
bleaching of, 42-43
cell organization and ultrastructure of, 35, 37
photosensitivity of, 146
Euglena viridis
cell organization and ultrastructure of, 35-36
Euglenida-Euglenophyta, 31-48
cell organization and ultrastructure of, 35-40
contractile vacuole, 38
flagella, 35-36
flagellar swelling, eyespot and photoreception, 36-37
ingestion apparatus, 38
organelles, 38-39
pellicle, 37-38
chloroplast physiology and development, 41-43
chromosome studies, 40-41
introduction to, 31-32
paramylon studies, 43-44
taxonomy, 32-35
Everninomicin complex
from micromonosporaceae, 91

F

Fanleaf virus
nematode vectors of, 208
Fatty acids
acyl carrier protein, 226-34
distribution and function of, 228-32
reactions involving, 232-35
structure of, 227-28
metabolism of, 244-51
role of glyoxylate in, 244-50
synthesis of, 225-44
acetyl-coenzyme A carboxylase in, 238-44
in euglena, 43
in mesosome, 429
stimulation of, 237-38
temperature effects on, 111-12
in yeast, 235-37
Fatty acid synthetase
characteristics of, 227, 237
Fermentation
methane, 121-42
Ferrioxamines
chemical characterization of, 95
Fervenulin
from streptomycetacea 90
F factors (sex factor)
description of, 603-4
F' factor
description of, 604
of E. coli, 621
formation of, 618, 622-24
integration of, 611-12
Fibroblasts
in differentiation studies, 575-78, 580-81, 584, 586, 588-90, 594
Filtration
for enrichment culture, 52
Flagella
of euglena, 35-36
heat stability of, 105
temperature effect on production of, 111
Flavobacterium
psychrophilic, 109
Fluorescein
as photosensitizer, 145
Fluorescent antibody techniques
of Salmonella testing, 498
p-Fluorophenylalanine
on cellular enzyme induction, 587
5-Fluorouracil
on nucleic acid synthesis, 378
Food poisoning
see Salmonellosis
Food processing
to control salmonellosis, 501, 517-18
Foot-and-mouth disease
in biological warfare, 651, 659
Formate
in methane fermentation, 127-28
Formycin
production and activity of, 93
Formylation
in protein synthesis, 402
Francisella tularensis
in biological warfare, 642-43, 647-49, 651, 654, 656, 658, 661
Friend virus
radiation of, 343
see also Leukemia virus, murine
Fructose-1,6-diphosphate
in fatty acid synthesis, 237
Fungi
thermophilic, 104
as virus vector, 213-20
olpidium, 214-16
tobacco necrosis virus, 217-20
tobacco stunt virus, 216-17

G

Gas vacuoles
of photosynthetic bacteria, 302-3
Gene
function of
col factor effect on, 267-69
Gentamicin complex
from micromonosporaceae, 91-92
Glanders
in biological warfare, 651, 658-59
γ-Globulin
mechanism of synthesis of, 189
in tolerance studies, 160-61, 169, 172
see also Immunoglobulins

Glomerulonephritis
viral etiology of, 481, 487
Glucocorticoids
on cell culture growth, 576, 581
Glucose-1-phosphate
in fatty acid synthesis, 237
Glucose-6-phosphate
in fatty acid synthesis, 237
α-Glycerol phosphate
in fatty acid synthesis, 237
Glyoxylate
in fatty acid metabolism, 244-50
condensation with acetyl-coenzyme A, 244
condensation with butyryl-coenzyme A, 247-49
condensation with propionyl-coenzyme A, 244-47
condensation with valeryl-coenzyme A, 249-50
other condensations, 250
Goats
salmonellosis of, 495
Grape fanleaf virus
nematode vectors of, 207-13
Gross virus
see Leukemia virus, murine
Guanine
as photosensitizer, 145-46
Guanosine triphosphate
and protein synthesis, 394-95, 404, 409
G value
for nucleic acid, 329

H

Halobacterium halobium
cell wall of, 423, 436
Halobacterium salinarium
photosensitivity of, 145
Harmalin
as photosensitizer, 144
Heart disease
microorganisms in etiology of, 485-87
H411 E cells
differentiation in, 586
HeLa cells
differentiation in, 586-87, 592
Hematopoietic cells
differentiation in, 584
Hemoglobin
α-chains
ribosome release of, 407
Hemolysis-in-gel
to study antibody formation, 186-87, 199
Hepatoma
differentiation in, 577, 585
Herpes simplex virus
and multiple sclerosis, 469
Herpes virus
and equine arteritis, 486
Histoplasmosis
in biological warfare, 651, 656, 658
HLM cells
differentiation in, 586
Horses
salmonellosis of, 508
HTC cells
differentiation in, 586-87
Hurler's syndrome
cellular disorders in, 589
Hyalophacus
cell organization and ultrastructure of, 35
Hydrogen
photometabolism of, 310-11
photoproduction of, 311
5-Hydroxyl-benzimidazolyl-cobamide
chromophoric property of, 136
α-Hydroxyglutarate
synthesis and metabolism of, 245, 247
Hypersensitivity, delayed
and carcinogenicity, 196-97
at cellular level, 190-97
in vitro demonstration of, 190-91
mechanism of, 191-92
model for reactivity, 195-96
review of, 181-82
systemic, 196
transfer techniques in, 193-95

I

Immune responses
at cellular level, 181-204
delayed-type hypersensitivity, 190-97
lymphoid tissue in vitro, 185-90
lymphoid tissue in vivo, 182-85
summary of, 199-200
suppression of lymphocyte functions, 197-99
see also Tolerance
Immunity
and colicins, 275-76
in vitro transfer of test of, 190
role of O antigens in, 455-58
Immunization
with jet injector, 648-49
Immunoglobulins
formation of
and delayed hypersensitivity, 163-64
genetics of, 183
hemolysis-in-gel procedures for, 186-87, 199
in vivo suppression of, 199
proliferation vs. differentiation in, 186-87
template theory of, 184
messenger role of, 185
ribosomal release of, 407
in tolerance studies, 159-62, 168-70
see also γ-Globulin
Immunosuppressive drugs
tolerance production by, 164-65
Influenza
in biological warfare, 651, 658
Interferon
virus synthesis of, 587
Iodinin
characterization of, 95
Iris pigment cells
differentiation in, 578, 581

J

Japanese encephalitis
see Encephalitis
Jet injector
for mass immunization, 648

K

Kanamycin
for enrichment culture, 53
K.B. cells
differentiation in, 586
α-Ketoglutarate
synthesis of
ferredoxin-dependent, 312
Kidney cells
differentiation in, 578
Kuru
etiology of, 468-69, 489, 491

L

Lactobacillus corynoides
cell wall of, 426
Laser
continuous-wave gas
to photokill, 146
L cells
differentiation in, 578, 584, 586, 591, 593
Lens capsule epithelium
differentiation in, 577-78
Leptospirosis

in biological warfare, 658
Lethal synthesis
for enrichment culture, 54-56
Lettuce big vein virus
olpidium vector of, 214-16
Leukemia
leukocytes from
long-term culture of, 189
Leukemia virus, murine, 529-72
biochemistry of, 552-56
host cell changes, 554-56
virus characterization, 552-54
cell culture, 556-58
chromosomes of, 559-60
classification of, 535
comparative study of, 543-44
genetic studies of, 560-62
immunology of, 542-51
fluorescent antibody, 545-46
humoral factors, 547-49
of leukemogenesis, 550-51
tolerance, 549-50
tumor antigens, 545-50
tumor-specific transplantation resistance, 549
viral relationships, 546-47
introduction to, 530
natural transmission of, 530-34
horizontal, 533-34
modes of, 531
vertical, 531-33
pathology of, 534-42
lymph node origin, 541-42
splenic origin, 534-38
thymic origin, 538-41
and sarcoma, 562-65
viral immunology, 542-45
complement fixation, 544
neutralization, 542-44
virus morphology, 551-52
Leukocytes
immunologic damage of, 197
long-term culture of, 189
Leukoencephalopathy
viral etiology of, 468
Leydig cells
differentiation in, 577
Light
and bacterial survival, 143-56
and photosynthetic pigments, 303
Lipids
of E. coli and Salmonella cell walls, 446
of leukemia virus, 554
Lipopolysaccharides
cell wall, 417-18, 437
Escherichia and Salmonella, 446, 448-52
structure of, 449
synthesis and composition of, 443
Listeria monocytogenes
immunity from, 456-57
Listeriosis
in biological warfare, 658
Liver cells
differentiation in, 586
Longidorus sp.
as vectors of plant virus, 208-10, 212-13
Lumichrome
as photosensitizer, 145
Lupus erythematosus
etiology of, 486, 491
Lycopene
in photosynthetic bacteria, 308
Lymph nodes
antigen agglutination in, 457
murine virus leukemia in, 541-42
Lymphocytes
antigen action on, 177-78
antilymphocytic serum, 197-98
biology of, 181
immunological memory of, 183
suppression of function of, 197-99
tolerance production, 166
Lymphoid tissue
immune responses of, 182-90
in vitro, 185-90
in vivo, 182-85
Lymphoma
differentiation in, 577, 579
etiology of, 487-88
thymic
pathology of, 538-40
Lysine
biosynthetic pathways of, 74
Lysogens
induction of, 619-20
Lysophosphatidic acid
yeast synthesis of, 233

M

Macrophages
in vitro infection of, 459-61
Maedi
etiology of, 467, 474, 476, 481-82, 490
Magnesium ions
in protein synthesis, 385, 387, 389-91, 393-94, 399, 403, 407-8
Malaria
in biological warfare, 647, 656, 658
Malleomyces mallei
in biological warfare, 643
Malnutrition
and salmonellosis, 506
Malonyl transacylase
in fatty acid synthesis, 229-31, 239
Manganese ion
in protein synthesis, 390
Mast cell
differentiation in, 577, 579
Megacins
mode of action of, 277-78
purification of, 260-61
Melanomas
differentiation in, 579, 581
Meliodiosis
in biological warfare, 658
Menoidium bibacillatum
cell organization and ultrastructure, 35-36
6-Mercaptopurine
on immune response, 198-99
tolerance production with, 164
Mesosomes
current status of, 424-30, 438
Metabolic disease
microorganisms in etiology of, 487-88
Metabolism
at suboptimum temperatures, 110-15
enzyme synthesis, 114-15
fatty acid synthesis, 111-12
flagella production, 111
pigment production, 110-11
polysaccharide synthesis, 111
protein synthesis, 114
solute uptake, 112-14
Methane fermentation, 121-42
of acetate, 138
carbon dioxide as methane source, 124-28
mechanism, 125-26
reduction steps, 126-28
cofactor requirements for, 136-38
culture methods, 122
energetics of, 138-40

physiological types of bacteria, 122-24
terminal reduction step in, 131-36
Methanobacterium formicicum
in methane fermentation, 123-24, 128
Methanobacterium omelianskii
in methane fermentation, 122, 124-29, 132-40
Methanobacterium propionicum
in methane fermentation, 123
Methanobacterium ruminantium
culture methods, 122
Methanobacterium suboxydans
in methane fermentation, 123-24
Methanococcus mazei
in methane fermentation, 123
Methanococcus vannielii
in methane fermentation, 124-25
Methanosarcina barkeri
in methane fermentation, 123, 126-28, 130-32, 134-40
Methicillin
for enrichment culture, 53
D-Methionine
for enrichment culture, 53
Methotrexate
on immune response, 198-99
8-Methoxypsoralen
as photosensitizer, 149
Methylcholanthrene
as photosensitizer, 148
Methylcobalamin
in methionine formation, 131
synthesis of, 134-35
catalytic systems in, 135-36
cofactor for, 136-38
Methylene
in methane fermentation, 128-31
Methylene blue
as photosensitizer, 145-46, 148
Methyl tetrahydrofolate derivatives
in methane fermentation, 128-31
Micrococcus sp.
photosensitivity of, 145
Micrococcus lysodeikticus
cell wall of, 425, 430, 432-34
RNA polymerase of, 369
Micrococcus pyogenes
radiation sensitivity of, 355
Micrococcus radiodurans
and ionizing radiation, 355, 359
Micromonosporaceae
antibiotics from, 91-92
classification of, 79-81
Micropolysporins
production of, 95
Mitogen
and immune response, 198
review of, 181
Moloney virus
see Leukemia virus, murine
Monicamycin
from Streptoverticillium, 90
Mouse
leukemic strains of, 532-33
sarcoma virus of, 562-65
virus leukemia in, 529-72
Mucopeptide
of Salmonella and E. coli, 445-46
Multiple myeloma
compared to virus disease, 479
Multiple sclerosis
viral etiology of, 469
Muralytic enzymes
for membrane isolation, 430
Mutants
with altered regulatory mechanisms, 57-63
auxotrophic
stain for, 55
CI λ phage, 625-28
defective in amphibolism, 56-57
of E. coli, 540
enrichment culture of, 51-63
with impaired nutrient uptake, 56
mutation rate determination, 65
resistant and similar types, 51
with restricted substrate utilization, 56
temperature-sensitive, 57, 115-16
Myasthenia gravis
etiology of, 486, 491
Mycobacterium
photosensitivity of, 151
Mycobacterium avium
cell membrane of, 426
Mycoplasma sp.
cell wall of, 423, 432
and pneumonia etiology, 482-83, 485
Mycoplasma granularum
and porcine arthritis, 485
Mycoplasma laidlawii
cell wall of, 435
Myeloid neoplasia
pathology of, 537-38
Myeloma
immune responses of, 187-88
Myoblasts
differentiation in, 576, 580
Myxococcus xanthus
photosensitivity of, 153

N

Neisseria intracellularis
photosensitivity of, 144
Nematodes
virus transmission by, 207-13
modes of, 213
polyhedral-shaped viruses, 207-9
rod-shaped viruses, 209
specificity in, 212-13
Nephritis
microorganisms in etiology of, 477-81, 489
Nephrotic syndrome
microorganisms in cause of, 477-81
Neurospora crassa
light effects of, 144
Newcastle disease virus
in biological warfare, 659, 665
radiation of, 343
Nitrite
on Salmonella, 503
Nitrocystis oceanus
cell wall of, 426
Nitrosomonas europaea
cell wall of, 426-27
Nocardamin
as desferrioxamine E, 96
Nocardiaceae
antibiotics from, 93-95
classification of, 85-89
Nocardorubin
bacterial producer of, 92
Novobiocin
for enrichment culture, 53
Nucleic acids
of col factors, 266-67
of murine leukemia virus, 552-54
radiation chemistry of, 334-40
polymer chemistry, 336-40
radiation damage of, 327-34
correlation between base composition and free radical yield, 333-34
electron spin resonance analysis of, 327-34
nature and sites of free radicals, 330-31

yield of free radicals, 328-30
radiation effects on, 325-68
bacterial, 350-62
DNA as primary target of cell, 355-61
summary and conclusion, 361-62
of viruses, 340-50
Nucleic acid synthesis
mechanisms of, 369-82
DNA, 375-78
RNA, 369-75
Nystatin
for enrichment culture, 54

O

Okenone
structure and biosynthesis of, 307-8
Olpidium
life history of, 214-15
relation to tobacco necrosis virus, 218-20
viruses transmitted by, 214-20
big vein-olpidium relationships, 215-16
lettuce big vein virus, 215
tobacco stunt virus, 216-17
O'Nyong-Nyong fever
new virus disease, 652
Organ culture
differentiation in, 574
Osteoblast
differentiation in, 577-78
Oxamycin
and enrichment culture, 53
Oxygen
and photosynthetic pigments, 303-4
Oxytetracycline
in salmonellosis, 504

P

Papilloma virus
radiation of, 339, 343
Paramecium caudatum
photosensitivity of, 148
Paramylase
isolation attempts, 43-44
Paramylon
identification and organization of, 43-44
Pasteurella pestis
in biological warfare, 648
Pasteurella pseudotuberculosis
lipopolysaccharides of, 451-52
Pea early browning virus
nematode vectors of, 208-10
Penicillin
for enrichment culture, 52-54
Penicillin G
for enrichment culture, 53-54
Penicillium notatum
photosensitivity of, 144
Peranemaceae
classification of, 32, 34
Peranema trichophorum
cell organization and ultrastructure of, 35-36, 38
Petalomonas
cell organization and ultrastructure of, 35
Phage λ
episome attachment to, 606-13, 616-20, 622, 624-28
map of, 627
radiation of, 343, 346-48
Phage P22
episomes of, 609
Phage φ80
episomes of, 606, 608-10, 618-20, 622
Phage φX174
ionizing radiation of, 336, 339-40, 342-47, 349
Phages
"ghosts"
and bacteriocins, 278
temperate, 602-3, 624
Phage typing
of Salmonella, 497
Phenazines
antibiotic activity of, 95
Phenosafranine
as photosensitizer, 145
Phosphorus
uptake of
in leukemia-infected host cell, 555
Phosphorus 32
for enrichment culture, 54
Photopigments
of photosynthetic bacteria, 303-9
light regulation of, 303
oxygen regulation of, 303-4
Photoreception
of euglenida-euglenophyta, 36-37
Photoreduction
bacterial, 28
Photosensitizers
bacterial, 143-50
Photosynthesis
comparative bacterial study of, 19-20
diagram of mechanism of, 23
equation for, 19, 22
Photosynthetic bacteria, 285-324
absorption spectra of, 290
aerotaxis and chemotaxis, 317
classification of, 317-19
ecology of, 287-91
habitats, 288
light quality and pigment systems, 288-89
position in cycle of matter, 287-88
sulfide and nonsulfur purple bacteria, 291
vertical migration, 289-91
enrichment and isolation of, 291-95
nonsulfur bacteria, 293-95
sulfur bacteria, 292-93
introduction to, 286-87
morphology and growth habits of, 295-303
budding, 299
cellular form and arrangement, 295, 297-98
gas vacuoles, 302-3
motility factors, 295
photosynthetic apparatus, 299-301
vesicular bodies, 301-2
photopigments, 304-9
phototaxis, 315-17
physiology of, 309-15
anaerobic dark metabolism, 314
B_{12} and reduced sulfur requirements, 314-15
carbon dioxide fixation, 311-12
chlorobium, 313
chloropseudomonas, 313-14
metabolism of organic compounds, 312-13
metabolism and production of hydrogen, 310-11
metabolism of sulfur compounds, 309
photo-oxidation of thiosulfate, 309-10
regulation of pigment content and membrane formation, 303-4
Phytohemagglutinin
in vivo effect of, 198
Pigment
production of
temperature effects on, 110-11
Pigs
salmonellosis of, 507-8
Pinealoma
differentiation in, 577
Pituitary cells

differentiation in, 579, 581
Plague
in biological warfare, 649, 651, 656, 658-60, 665
Plasmids
col factors as, 261-66
Plasmodium vivax
in biological warfare, 642
Pneumonia
etiological agents of, 482
Poliomyelitis
in biological warfare, 642, 648, 658, 661
Polyarteritis
etiology of, 484-85
Polymyxa graminis
as vector of plant virus, 214
Polyoma virus
and cell strain evolution, 576
Polysaccharides
cell membrane
importance of, 594
temperature effect on synthesis of, 111
Polysomes
in vitro behavior of, 396-98
Porphyrin
as photosensitizer, 153
Potassium ions
in protein synthesis, 385, 391, 393
Poultry
salmonellosis of, 508
Primocarcin
characterization of, 94
β-Propiolactone
decontamination by, 655
Propionic acid bacteria
fermentation by, 13
Protein
of enterobacteria cell wall, 446
injected
to produce tolerance, 166
of leukemia-infected host cell, 555
of leukemia virus, 554
specificity of cellular induction of, 585-87
Protein synthesis
and differentiation, 581, 589, 594
mechanism of, 383-416
binding of sRNA to ribosomes, 390-94
chain growth, 403-5
chain initiation, 398-403
chain termination, 405-6
conclusions, 408-9
genetic code and translation, 388-89
interactions of mRNA with ribosomes, 389-90
introduction to, 383-85
late events in, 406-7
mRNA role in, 387-88
natural polysomes, 396-98
ribosomal, 385-87
transfer factors, 394-96
translation mistakes, 407-8
Proteus sp.
cell wall of, 426
Proteus mirabilis
cell wall of, 424
Proteus vulgaris
cell wall of, 426
Pseudomonads
psychrophilic, 108-9
Pseudomonas aeruginosa
cell wall of, 423-24
radiosensitivity of, 355
Pseudomonas fluorescens
radiosensitivity of, 355
Psittacosis
in biological warfare, 647, 651, 656, 658
Psychrophiles
definition of, 106
distribution of, 108-10
ecology and isolation of, 107-8
Puromycin
on cellular enzyme induction, 587
and protein synthesis, 392, 394, 402
Pyocin R
mode of action of, 276-77
purification of, 260
Pyronin
as photosensitizer, 146

Q

Q-fever
in biological warfare, 642, 647-48, 654, 656, 658, 661
Questiomycin A
source of, 95
Quinine
as photosensitizer, 144

R

R 17 coliphage
radiation of, 343
Rabies
in biological warfare, 658-59
quick identification of, 653
Radiation, ionizing
of nucleic acids, 325-68
of Salmonella, 501
Radiation, solar
spectral distribution in Sargasso Sea, 289
Raspberry ringspot virus
nematode vectors of, 207-8, 212
Rauscher virus
see Leukemia virus, murine
Recombination
steps in, 612-14
Reiter's syndrome
etiology of, 484
Renal diseases
infectious etiology of, 477-81
Resistance factors (R factors)
description of, 604-5
Respiratory diseases
microorganisms in etiology of, 481-83
Retinal pigment cells
differentiation in, 578, 580
Rhabdomyosarcomas
pathology of, 563
Rheumatic fever
etiology of, 485-86
Rhodopseudomonas spheroides
photosensitivity of, 151-52
Rhodospirillum rubrum
metabolism of, 245
Riboflavin
as photosensitizer, 145
Ribonucleic acid
see RNA
Ribosomes
protein synthesis role of, 385-87, 389-94
radiation sensitivity of, 353-54
Rich virus
see Leukemia virus, murine
Rickettsia prowazekii
in biological warfare, 648, 651, 654
Rickettsia tsutsugamushi
in biological warfare, 642
Rida
see Scrapie
Rift Valley fever
in biological warfare, 651, 653, 656, 658-59, 664
Rinderpest
in biological warfare, 659, 665
Ristocetin
for enrichment culture, 53
RNA
alanine-soluble
primary structure of, 389
amino acyl-soluble
in protein synthesis, 384-85, 388-89, 391-96, 398, 402-4, 408
of leukemia-infected host cell, 555
messenger

and protein synthesis, 387-94
radiation sensitivity of, 352
in mouse leukemia virus, 552-55
serine-soluble
primary structure of, 389
soluble
primary structure of, 389
-ribosome binding, 390-94
transfer
radiation sensitivity of, 353-54
tyrosine-soluble
primary structure of, 389
RNA synthesis
introduction to, 369
in vivo, 374-75
regulation of, 374-75
mammalian, 369
RNA polymerase
binding of, 370-71
in vitro polymerization, 370-73
isolation and purification of, 369-70
physical properties of, 370
reactions catalyzed by, 370
temperature effects on, 114-16
template strand selection, 373
Rocky Mountain spotted fever
in biological warfare, 651, 656, 658
Rose bengal
as photosensitizer, 145
Rous sarcoma virus
radiation of, 343
Runting syndrome
viral etiology of, 488
Ryegrass mosaic virus
nematode vectors of, 208

S

Saccharomyces cerevisiae
cell wall of, 427
photosensitivity of, 147-48, 152
Safranine
as photosensitizer, 144
Salmonella
in biological warfare, 644
characteristics of, 496-98
culture techniques, 497-98
phage typing, 497
serotyping, 497
chemotypes of, 447
compared to E. coli, 444-52
environmental growth and survival factors, 498-504
disinfectants, 503
natural competition, 504
pH, 502-3
preservatives and antibiotics, 503-4
radiation, 501
salt and water, 501-2
temperature, 499-501
various environments, 504
pathological groups of, 505
species associated with human systemic infection, 445
Salmonella enteritidis
see Typhoid, murine
Salmonella O antigens
and virulence, 443-66
acquired immunity to mouse typhoid, 455-61
cell walls, 445-52
comparison of Salmonella and E. coli, 444-45
conclusions, 461-62
effect of loss of O antigens, 453-54
introduction to, 443
possible relationship, 452-55
specificity of, 450-52
Salmonella paratyphi
photosensitivity of, 144
Salmonella typhimurium
see Typhoid, murine
Salmonellosis, 495-528
control of, 515-18
animal, 516-17
food processing, 517-18
human food-borne, 517
detection of, 498
epidemiology of, 511
introduction to, 495-96
pathology of, 504-15
in animals, 506-10
general features, 504-6
human, 510-15
Sarcina lutea
cell wall of, 432
photosensitivity of, 145-46, 149-50, 152
Sarcoma 180 cells
differentiation in, 586
Sarcoma virus, murine, 562-65
defectiveness, 564
Harvey, 562-63
Moloney, 563-64
rescue, 564-65
Scrapie
etiology of, 467-73, 489-90
incubation period for, 470, 473
pathogenesis of, 471-72
Serotyping
of Salmonella, 496-97
Serratia marcescens
aerosolization of, 654
photosensitivity of, 144
radiosensitivity of, 355
Sertoli
differentiation in, 577-78
Serum albumins
in tolerance production, 161-62, 165, 168-75
Sewage
biological purification of, 504
Sex factors
regulation of, 628-33
see also F factor
Sheep
salmonellosis of, 507
Shigella paradysenteriae
photosensitivity of, 144
Siderochromes
characterization and source of, 95-96
Smallpox
in biological warfare, 651-52, 656, 658
Spermidine
in protein synthesis, 390
Spirilloxanthin
structure and biosynthesis of, 307-8
Spirillum serpens
cell wall of, 426
Spleen
murine virus leukemia in, 534-38
Spongioblasts
differentiation in, 577
Sporaviridin
production and activity of, 93
Staph K (coliphage)
radiation of, 342
Staphylococcal enterotoxin
in biological warfare, 644
Staphylococcus albus
photosensitivity of, 144
Staphylococcus aureus
cell wall of, 421, 432-33
Staphylococcus epidermis
cell wall of, 427
Strawberry latent ringspot virus
nematode vectors of, 207-9
Streptococcus
cardiac sequelae of, 486
Streptococcus faecalis
cell wall of, 432-33
Streptococcus pyogenes
cell wall of, 432
Streptomycetaceae

antibiotics from, 90
classification of, 82-85
Streptomycin
miscoding of protein synthesis by, 408
Streptoverticillium
antibiotics from, 90
Sugars
and fatty acid synthesis, 237
Sulfide
and athiorhodaceae, 291
Sulfur
reduced sources of requirement for, 314-15
Sulfur bacteria
see Thiorhodaceae
Synchytrium endobiotium
as vector of plant virus, 214
Syngeneic preference phenomenon, 190

T

Taxonomy
see Classification
Temperature
effects on microorganisms, 101-20
methology, 102-3
psychrophiles, 106-10
temperature-sensitive mutants, 115-16
thermophiles, 103-5
and Salmonella survival, 499-501
suboptimum
physiological activities, 110-14
on synthesis and activity of enzymes, 114-15
Teratoma
differentiation in, 577, 579, 584, 591
Tetanus
in biological warfare, 648
Thermoactinomyces
antitumor products of, 94
Thermophiles
physiology of, 104-5
Thermorubin
production and activity of, 95
Thermothiocin
characterization of, 94
Thienylalanine
mutant resistant to, 61
Thiopyronin
as photosensitizer, 146
Thiorhodaceae
cellular form and arrangement of, 295
classification of, 317-19
ecology of, 288, 290
enrichment and isolation of, 292-93, 296
metabolism of, 9-11
motility factors of, 295-97
photometabolism of, 310-12, 314-15
taxonomy problem with, 20-21
vitamin B_{12} requirement of, 315
Thiosulfate
bacterial photo-oxidation of, 309-10
Threonine deaminase
resistant mutants, 63
Thymectomy
and tolerance persistence, 169
Thymidine
radical structure of, 330
Thymine
for enrichment culture, 55
Thymus
and autoimmune reactions, 488
and lymphocyte function, 197, 199-200
murine virus leukemia in, 538-41
Tissue culture
differentiation in, 574
Tobacco mosaic virus
protein synthesis in, 389
radiation of, 342-44
Tobacco necrosis virus
-olpidium relationships, 218-20
radiation of, 343
satellite virus, 217-18
vectors of, 214, 217-20
relation to spores, 218-20
Tobacco rattle virus
nematode vectors of, 208-9, 213
Tobacco ringspot virus
nematode vectors of, 208-11
radiation of, 343
Tobacco stunt virus
-olpidium relationship, 214, 216-17
Tolerance, 157-80
as central immunologic failure, 159
definition of, 158-59
to delayed hypersensitivity
dissociation of antibody formation, 163-64
production of, 162-63
hypothesis of, 175-78
schema for, 176
introduction to, 157-58
kinetics of, 166-69
and lymphocytopenia, 197
macrophage participation in, 175-78
in murine virus leukemia, 549-50
persistence of, 167-69
predictions about, 178
production of, 164-71
with immunosuppressive drugs, 164-65
kinetics of, 166-67
lymphocyte depletion, 166
protein injections, 166
quantitative aspects of, 169-71
by X ray, 165-66
structural and functional relations of antigen, 160-62
termination of, 171-75
immunization with related antigens, 173-75
spontaneous antibody production, 171-72
by X ray, 172-73
Toluidine blue
as photosensitizer, 145, 153
Tomato black ring virus
nematode vectors of, 207-8, 210, 212
Tomato ringspot virus
nematode vectors of, 208-9, 211-12
T-phages
radiation of, 340, 343-50
Trachelomonas sp.
cell organization and ultrastructure of, 35, 39
Transplantation, tissue
biology of, 158
Trichodorus sp.
as vectors of plant viruses, 208-13
5, 5, 5-Trifluoroleucine
mutants resistant to, 62
Trypaflavin
as photosensitizer, 147
Tuberculosis
in biological warfare, 651
Turnip yellow mosaic virus
protein synthesis in, 390
Typhoid
in biological warfare, 658, 661
see also Salmonellosis
Typhoid, murine
acquired immunity to, 455-61
infection immunity, 455-58
infection of macrophages in vitro, 459-61
protection by antibody to O antigens, 455
protection by other antibodies, 458-59
Typhus
in biological warfare, 658, 660

U

Ultraviolet irradiation
for enrichment culture, 55

V

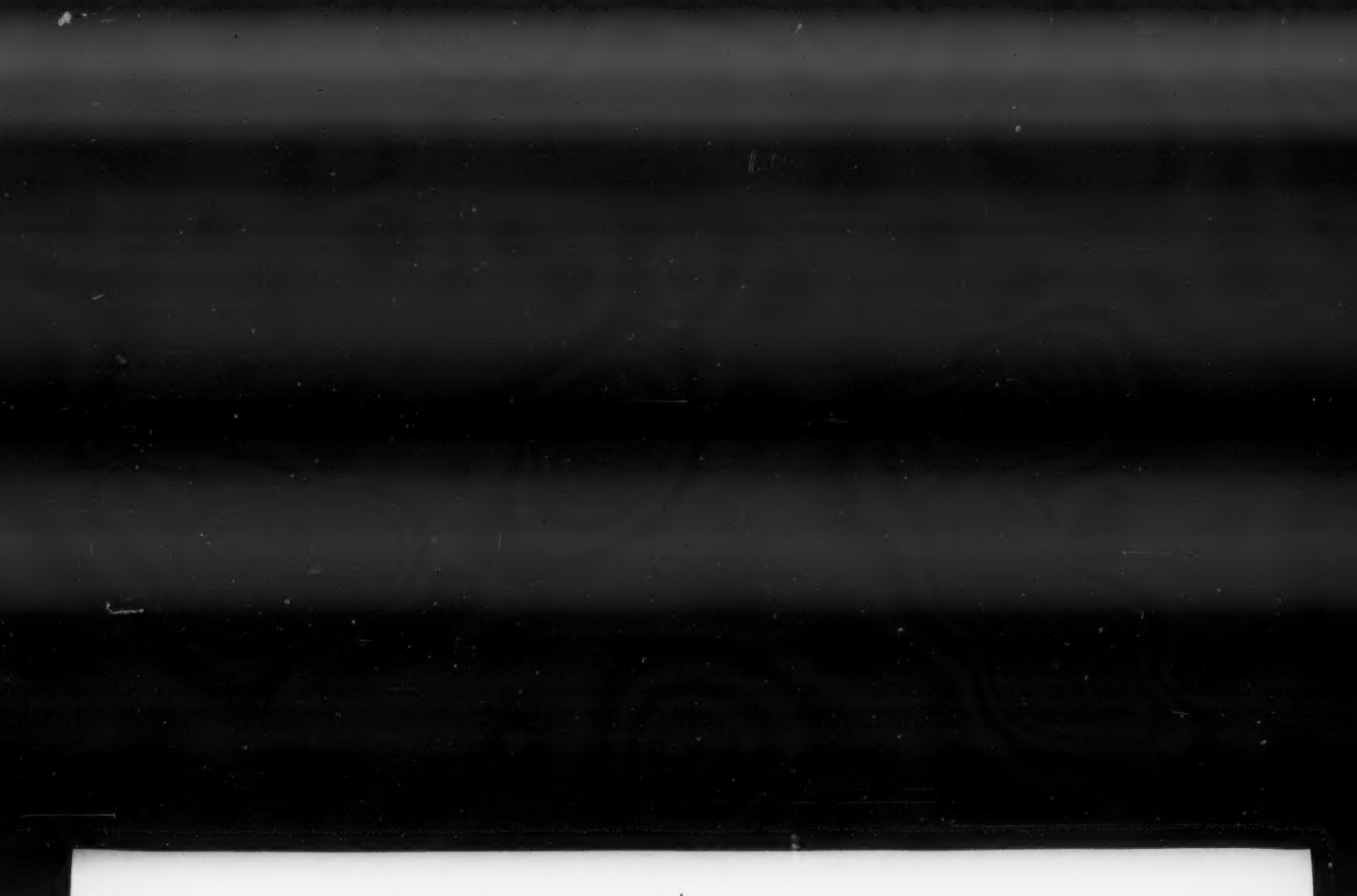
Vaccines
in biological warfare defense, 648
comparison of dead and living, 456
oral
experimental testing of, 457
Vaccinia virus
radiation of, 342-43
Vancomycin
for enrichment culture, 53
van Neil's Law
evolution of, 19-23, 27-28
Variola
in biological warfare, 648
Vectors
in biological warfare, 646-47, 653, 659
of plant viruses, 205-24
Vi antigen
and respiratory tract infection, 647
Violacin
from actinoplanaceae, 92-93
Virulence
and Salmonella O antigens, 443-66
Viruses
in human degenerative diseases, 467-94
leukemia
see Leukemia virus
light inactivation of, 144
radiobiology of, 340-50
double-stranded, 344-50
single-stranded, 342-44
radiosensitive molecular weights of, 343
see also specific viruses
Viruses, plant
in biological warfare, 658
unusual vectors of, 205-24
fungus, 213-20
introduction to, 205-6
nematodes, 207-13
Virus SV40
radiation effects on, 339
Visna
etiology of, 467, 473-76, 482, 490-91
post-inoculation CSF titers of, 475
Vitamin A
in cell culture differentiation, 581
Vitamin B_{12}
as growth factor, 21
in methane formation, 133-34
sulfur bacteria requirement for, 314-15
Vitamin K
as photosensitizer, 145

W

War
see Biological warfare
Warmingol
of photosynthetic bacteria, 308
Warmingone
of photosynthetic bacteria, 308
Water
contamination in warfare, 659
West Nile virus
in biological warfare, 648, 658
Wolhynian fever
in biological warfare, 658

X

Xiphinema sp.
as vectors of plant viruses, 208-13
X ray
tolerance production by, 165-66
tolerance termination by, 172-73

Y

Yeast
fatty acid synthesis in, 235-37
composition of enzyme complex, 235-37
introduction, 235
mechanism of, 235
psychrophilic, 109-10
Yellow fever
in biological warfare, 646-48, 658
Yellowstone Park
bacteria in, 17-18